ORDER NO. VRD0107029C8

Service Manual

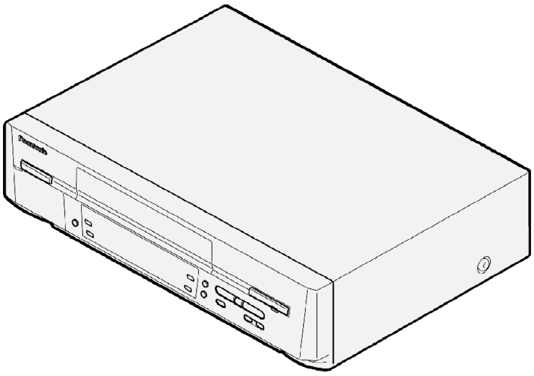
Video Cassette Recorder

Panasonic VHS PAL NTSC

Hi-Fi HQ

NV-FJ620AM / NV-FJ620AMC / NV-FJ620EU / NV-FJ620AU / NV-FJ620BD / NV-FJ620BDX / NV-FJ625AM / NV-FJ625AMM

Z-MECHANISM



SPECIFICATIONS

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. INTRODUCTION

This service manual contains technical information which will allow service personnel to understand and service this model.
If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

Notes:

1. Adjustment procedures, Disassembly Procedures and Assembly Procedures for Mechanism Chassis are separate volume from this service manual. / Please refer to the service manual for Z-Mechanism Chassis. (Order No. VRD9802005C2)
2. The Model No. is indicated on the Schematic Diagram and Circuit Board Diagrams as follows.

Model No.	Indication Mark
NV-FJ620AM/AMC	(A)
NV-FJ620EU	(B)
NV-FJ620AU	(C)
NV-FJ620BD/BDX	(D)
NV-FJ625AM/AMM	(E)

1.1. IDENTIFICATION OF NV-FJ620AM/AMC& NV-FJ625AM/AMM

1. For NV-FJ620AM/AMC :
Since in both NV-FJ620AM and NV-FJ620AMC are indicated as "NV-FJ620AM" on the Name Plate, distinguish the model number whether country of origin is mentioned on the Name Plate or not.
[* With Country of origin : NV-FJ620AMC] [* Without Country of origin : NV-FJ620AM]

2. For NV-FJ625AM/AMM :
Since in both NV-FJ625AM and NV-FJ625AMM are indicated as "NV-FJ625AM" on the Name Plate, distinguish the model number whether country of origin is mentioned on the Name Plate or not.
[* With Country of origin : NV-FJ625AMM] [* Without Country of origin : NV-FJ625AM]

- When servicing, confirm the Name Plate to distinguish the model number although Electrical Parts of both models are completely same.

2. GENERAL DESCRIPTIONS

2.1. SERVICE CAUTION-1

When the Microprocessor IC6001 and/or Back-up battery B6001 are replaced, read the following procedure carefully and proceed it.
[REASONS] / There is a RAM in the IC6001, which is backing up:

1. Programme Navigation Data
2. TV Tuning Data

3. PG Shifter Adjustment Data

4. Option Setting Data

When IC6001 and/or B6001 are replaced, all above listed data become not available. These data is backing up by using the power source of:

***AC Connected**
: AC Power source

***AC Disconnected**
: Back-up Battery (B6001)

2.1.1. REPLACING PROCEDURE [IC6001/B6001]

[1. PREPARATION]

Before replacing IC6001 and/or B6001:

- **Take a note that store TV broadcast channels. / (Because, its user may store TV broadcasts by manually other than "Auto Tuning" operation and it is also erased.)**
- **Back-up the Programme Navigation data. / (The Programme Navigation data is transferable by using "Programme Navigation Data Back-up Tool (VFK1493P)" (You may take make it by referring the following schematic diagram.)**

-NECESSARY STATUS OF THE VCR UNIT-

1. **The IC6001 should be comunicable with the Programme Navi. Back-up Tool. (VFK1493P)**
2. **The "NAVI" data has to be available in IC6001.**

NOTE:

During servicing, do not make short IC6001-pin 37 (5V) with other line/Components, otherwise, IC6001 may be broken.

[2. HOW TO CONFIRM THE "NAVI." DATA WITHOUT INSERTING A TAPE INTO A VCR?]

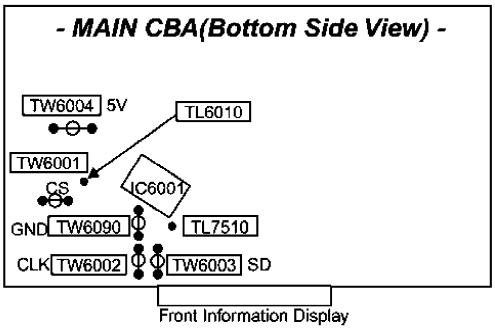
1. **Indicate the "NAVI" mark on the Front Information Panel. / (Press the Menu button and select the option, then set the "NAVI" to ON mode.)**
2. **Turn on the Service Mode and press the "NAVI" button on the Remote Controller in more than 5 seconds. / The "NAVI" date list is displayed on the Monitor. / (Press the "MENU" button on**

theRemote Controller for cancellation.)

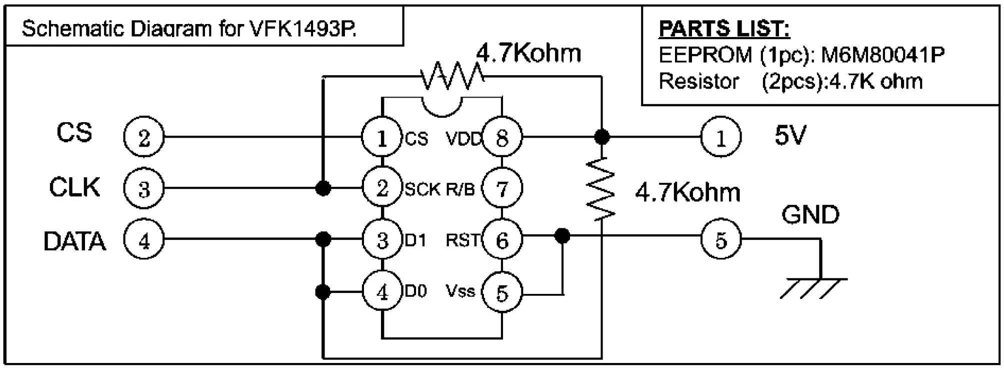
[3. REPLACING PROCEDURE IN STEPS]

[STEP 1. PREPARATION]

1. **Remove the C.B.A. with Mechanism unit by referring the Disassembly procedure.**
2. **Connect the VFK1493P by referring the following figure.**



VFK1493P (Terminal Name)	MAIN CBA (Place to be connect)
5V	TW6004
CS(Chip Select)	TW6001
CLK(S.Clock)	TW6002
DATA(S.DATA)	TW6003
GND	TW6090



[STEP 2. "NAVI" DATA BACK-UP]

	PROCEDURE	F.I.P. DISPLAY
Turn on the Service Mode.		0 00 00
1.	Press FF and EJECT keys / simultaneously for more than / 3 seconds.	
Turn on the Service Mode 2.		2 00 00
2.	Press FF and EJECT keys in twice.	
Turn on the Set-up mode.		2 00
3.	Press the EJECT key for more than 3 seconds.	
Turn on the mode 6.		2 6 00
4.	Press the CH UP key in 3 times.	
Activate the Back-up.		2 6 **
5.	Press the FF key for more than 3 seconds.	
(OK)	"UP" is displayed when the Back-up process has been done successfully.	2 6 up
(NG)	"31" is displayed when the Back-up process has not been done successfully.	2 6 31
	("31" is displayed mainly when the connection failure and ROM failure of VFK1493P occurred. Confirm them and try again.)	

[STEP 3. REPLACE THE IC6001 AND/OR B6001]

1. Disconnect the AC plug and replace the IC6001 and/or B6001. (Do not make a short circuit between IC6001-pin 37 and other pins/ components.)

   CAUTION:

   *When replacing the B6001, be sure to read/follow the "HOW TO REPLACE THE LITHIUM BATTERY" section.

[STEP 4. RESET THE IC6001 AT ONCE]

1. Connect the AC plug.
2. Connect a jumper wire between TL7510 and TW6090 (GND) for a second to reset the Microprocessor IC6001.

Note:

Since the resistance at pin 1 as well as pin 2 of IC6001 decides the model distinction data, no need to set up the Model code, which is

necessary in previous model.

[STEP 5. LINE-IN SETTING & ACTIVATE PLUG-IN A.T.P.]

1. **Press the Channel up and down keys simultaneously for more than 3 seconds, under the condition of the no tape is in the unit.**
2. **Confirm that “A1” and “A2” can be displayed on the FIP by pressing the CH UP and CH DOWN buttons.**
3. **Disconnect the AC plug for few seconds and connect it again to carried out the “Plug in Auto Tuner Preset”.**
4. **Since other than the channels which can be stored “Auto Tuning” operation are still not available, preset manually by consulting the note of its available TV channels of which you took before.**

2. Change the OSD setting to the Factory shipping condition if necessary, by referning the follwing charts.

OPTION	
TAPE SELECT	[E180]
NTSC INPUT SELECT	[AUTO]
NTSC PB SELECT	[on PAL TV]
JET NAVIGATOR	[OFF]
DELETE NAVIDATA	[NO]
DIRECT REC	[OFF]
MONAURAL	[OFF]
SELECT:	END:MENU

[STEP 6. NAVI. DATA WRITING/SAVING]

1. **Connect the Prog. Navi. Data Back-up Tool (VFK1493P)**

	PROCEDURE	F.I.P. DISPLAY
Turn on the Service Mode.		0 00 00
1.	Press FF and EJECT keys / simultaneously for more than / 3 seconds.	
Turn on the Service Mode 2.		2 00 00
2.	Press FF and EJECT keys in twice.	
Turn on the Back-up mode.		2 00
3.	Press the EJECT key in more than 3 seconds.	
Turn on the Back-up mode 6.		2 6 00
4.	Press the CH UP key for 3 times.	
Activate the NAVI. Data Writing.		2 6 **
5.	Press the REW key in more than 3 seconds.	
(OK)	“dn” is displayed when the Back-up process has been done successfully.	2 6 dn
(NG)	“32” is displayed when the Back-up process has not been done successfully.	2 6 32
	(“32” is displayed mainly when the connection failure and ROM failure of VFK1493P occured. Confirm them and try again.)	
Reset the Service Mode.		Normal Indication
6.	Press FF and EJECT keys / simultaneously in 6 times.	
Disconnect the AC plug, then disconnect the VKF1493P from the unit.		
NOTE: Perform the PG SHIFTER ADJUSTMENT.		

2.2. CAUTION FOR AC MAINS LEAD (NV-FJ620BD)

2.3. HOW TO REPLACE THE LITHIUM BATTERY

2.3.1. GERNERAL DESCRIPTION

There is a RAM in the IC6001, which is backing up the following data by using the power source of B6001 (Back-up Battery).

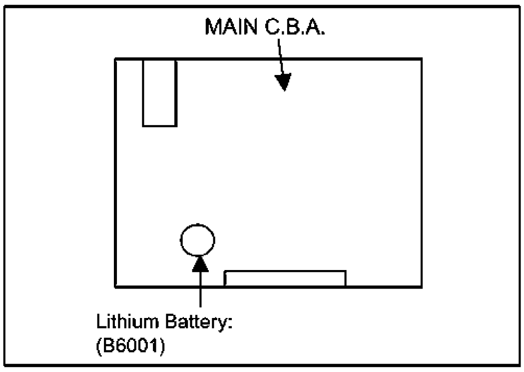
1. Programme Navigation Data
2. TV Tuning Data
3. PG Shifter Adjustment Data

4. Option Setting Data

2.3.2. REPLACEMENT PROCEDURE

1. **Remove the Top Panel and Mechanism unit with Main C.B.A. by referring the Disassembling Procedure.**
2. **Unsolder the Lithium Battery: B6001 “CR2354-1GUF” and then replace it into new one. (See Fig.B1)**

Fig.B1



NOTE:

The lithium battery is a critical component (Type No.:CR2354-1GUF Manufactured by Panasonic.)
It must nerver be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battey, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposeed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

2.4. SERVICE CAUTION-2

2.4.1. CAUTION FOR AUTO TUNING

PROCEDURE

Auto Tuning will start by the following procedure.

1. **Connect the DIN-RF Cable.**
2. **Connect the AC Mains Lead.**
3. **Turn on the VCR. / Auto Tuning will start. / Auto Tuning searches for TV stations from VHF minimum to UHF maximum and memorizes every tuned program position. Other program positions are skipped.**
   Auto Tuning takes five or more minutes to complete its search. Do not touch the VCR during Auto Tuning.
   Auto Tuning will stop halfway, if the VCR is operated or the aerial lead and/or the mains lead are disconnected.
   In case the VCR stopped during Auto Tuning, the VCR have to be reset and restarted. See the following item 2.

NOTE

1. **If the VCR is turned on with the antenna not connected, all channels are skipped. Therefore, firmly connect the antenna and**

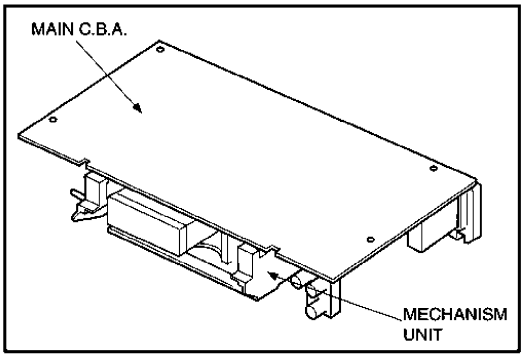
then turn the VCR off and on again to execute Auto tuning.

2. When Auto Tuning is canceled halfway, Auto Tuning is not executed even if the VCR is turned off and then turned on again. / In this case, Auto Tuning have to be restarted by the following procedure.
   A. Press EJECT and remove the Video cassette.
   B. Keep UP and DOWN on the VCR pressed simultaneously for 3 seconds or more during the VCR on. / The channel displayed on the VCR display disappears for a moment then changes to 2.
   C. Turn off the VCR and then turn it on. Auto Tuning commences.
3. If you turn the VCR off during Auto Tuning, Auto Tuning will stop halfway.
   The VCR should be reset and restarted by the item 2 in order to execute Auto Tuning.
4. If the VCR starts playback during Auto Tuning, Auto Tuning will stop halfway.
   The VCR should be reset and restarted by the item 2 in order to execute Auto Tuning.
5. To cancel Auto Tuning Mid-operation, press POWER during Auto Tuning (The VCR is turned off).
6. When the VCR is moved to the other area or country, TV broadcasts should be stored again.

2.4.2. CHECKING OF MAIN C.B.A.

When servicing the MAIN C.B.A., take out the MAIN C.B.A. and mechanism from the frame and turn over.

Fig. S3

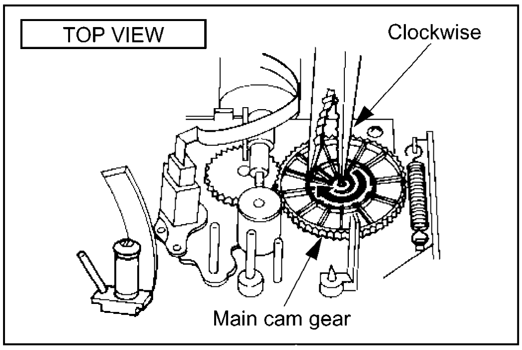


2.4.3. REMOVAL OF CASSETTE TAPE

There are 2 ways to remove a cassette tape.

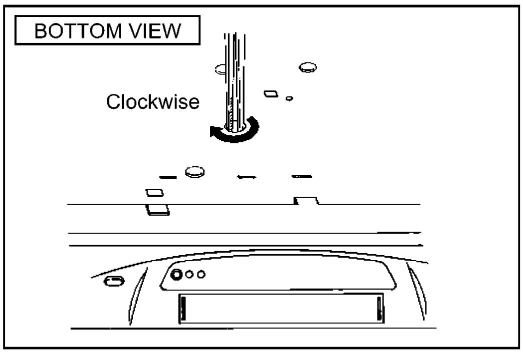
1. Removal of compulsory loading.
   A. Press FF and EJECT buttons simultaneously and set the Service Mode 7.
   B. Press STOP button in order to unload the mechanism. (Pay an attention of tape slack)
      Service Mode Indication:
      7 ** ** (STOP) → 7 00 ** (EJECT)
2. Removal of manual operation of Main cam gear.
   A. Disconnect the AC power cord and remove Top Panel.
   B. Rotate Main Cam Gear to the clockwise and unload the mechanism (Tape is remaining) (Fig. S4).

Fig. S4



   C. Rotate the Pole of Capstan motor to the clockwise the from the bottom in order to remove the tape slag.

Fig. S5



   D. Rotate Main Cam Gear to the clockwise in order to eject the cassette tape.

2.4.4. CYLINDER UNIT REPLACEMENT

1. CYLINDER UNIT REPLACEMENT
   A. Remove the Mechanism unit from MAIN C.B.A./Chassis by

referring “Disassembly Procedure”.

B. Remove the 3 screws (A) of the CYLINDER UNIT with a screw driver.

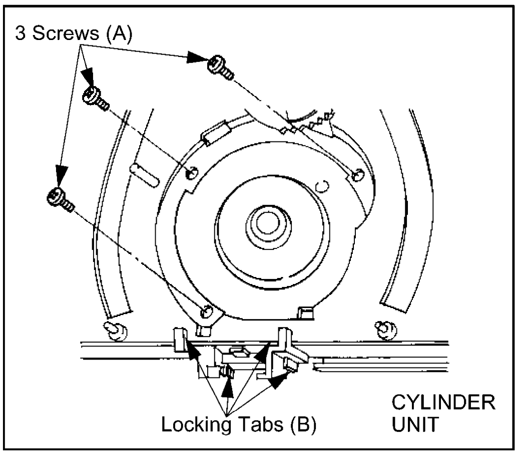
C. Unlock the 4 locking tabs (B) and disconnect the Cylinder flexible card from the FPC Holder.

D. Remove the CYLINDER UNIT.

CAUTION

Handle the Cylinder flexible card with care. When it damaged, you should replace whole Cylinder unit.

Fig. S6



2. UPPER CYLINDER DISASSEMBLY

A. Remove 2 screws (A).

B. Remove the Cylinder Stator Unit.

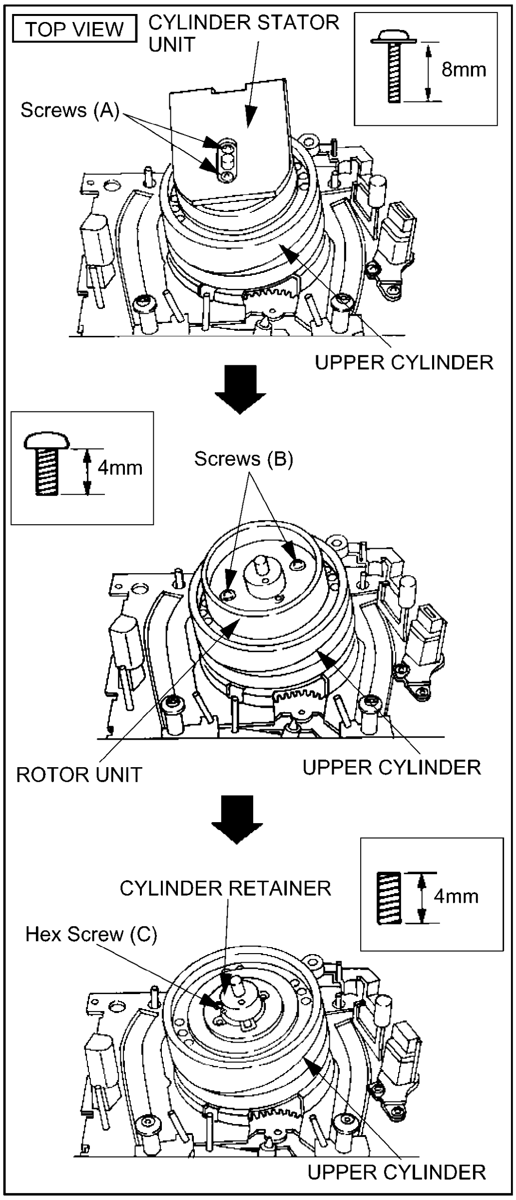
C. Remove 2 screws (B).

D. Remove the Cylinder Rotor Unit.

E. Loose Hex screw (C) (1.5 mm) and remove the CYLINDER RETAINER.

F. Remove the Upper Cylinder.

Fig. S7



3. UPPER CYLINDER ASSEMBLY

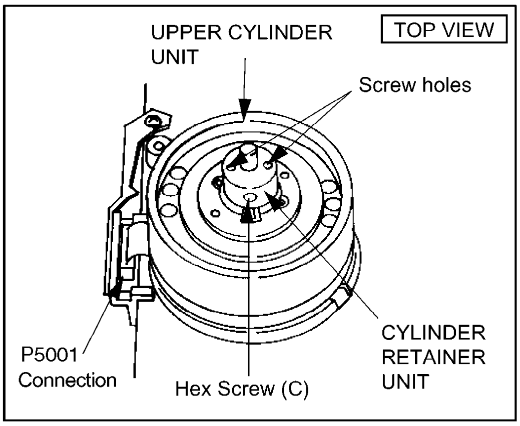
When reassembling, perform the steps in the reverse order.

Notes:

A. Install the Cylinder Retainer so that the 2 holes on top of the Cylinder Retainer are at right angles with the P5001 Connection.

B. Tighten the Hex screw (C) (1.5 mm) while pressing down on top of the Cylinder Retainer.

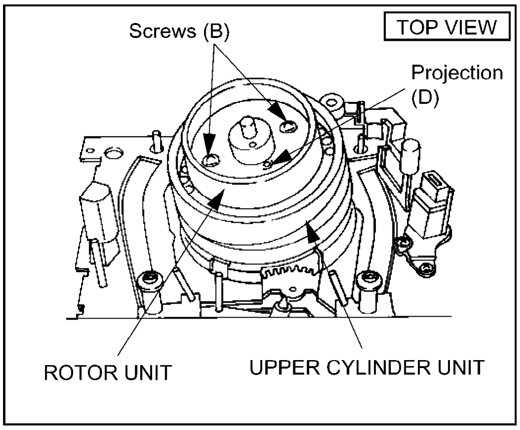
Fig. S8



C. Install the Cylinder Rotor Unit so that the inner hole of the Cylinder Rotor Unit fits to the small projection (D) on top of the Upper Cylinder.

D. Tighten 2 screws (B).

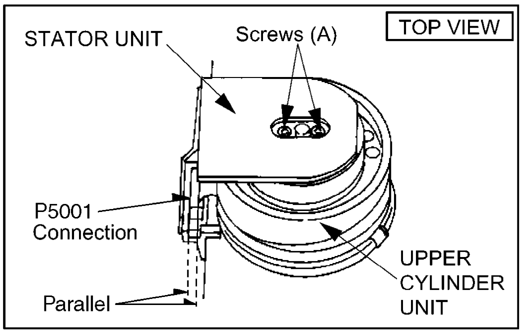
Fig. S9



E. Install the Cylinder Stator Unit.

F. Tighten 2 screws (A).

Fig. S10

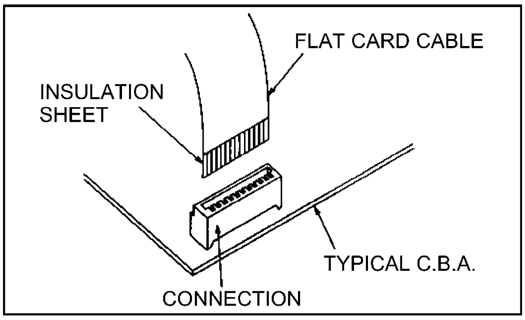


G. Confirm the PG SHIFTER ADJUSTMENT with the alignment tape (PAL: VFJ8125H3F) and adjust it if necessary.

2.4.5. FLAT CARD CABLE INSTALLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

Fig. S11



2.5. SELF-TEST& SERVICE INFORMATION DISPLAY

Refer to the Service Manual for Z Mechanism Chassis. (Order No.:VRD9802005C2)

2.6. INTRODUCTION OF VIDEO HEAD CLEANING CASSETTE (POLISHING TYPE)

1. We are pleased to introduce Panasonic Video Head Cleaning Cassette, VFK0923FT [for service purposes] and VFK0923FSE [for end users] for all VHS/SVHS VCP and VCR.
2. These cleaning cassettes are exclusive removing the hard and sticky clogging on video heads.
3. These improve the efficiency of video head cleaning service and shortening cleaning time for end users.

	VFK0923FT (For Service usage)	VFK0923FSE (For end users
Type of Cassette	Full VHS Cassette	Full VHS Cassette
Cleaning Time	10 Seconds/Time	10 Seconds/Time
Tape Length	20 m	3.34 m
Usability in a Path	180 Times	30 Times

Note:

The tape material itself is the same in both types.



[VFK0923FT]



[VFK0923FSE]

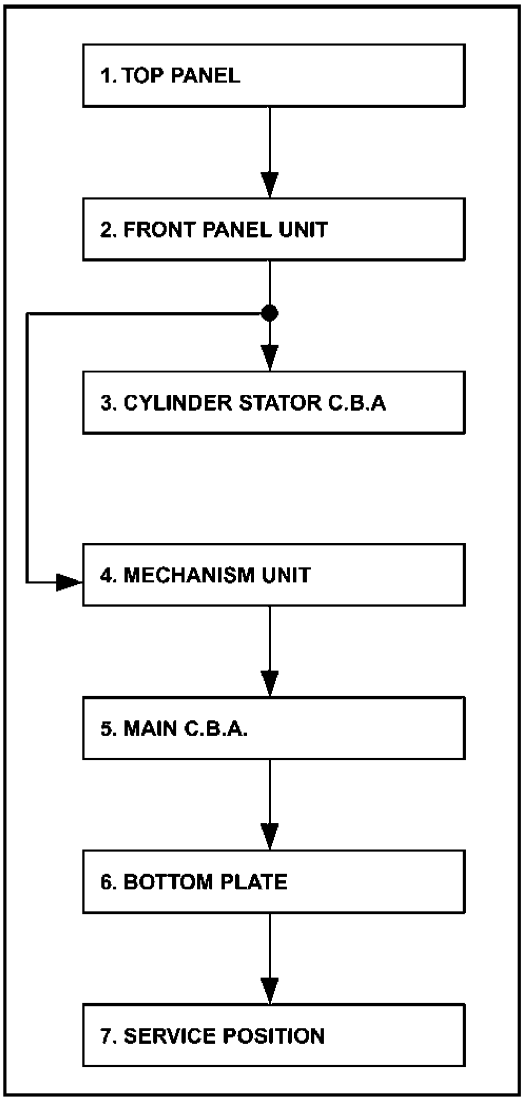
3. ADJUSTMENT PROCEDURES

3.1. DISASSEMBLY METHOD

3.1.1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

Fig. D1

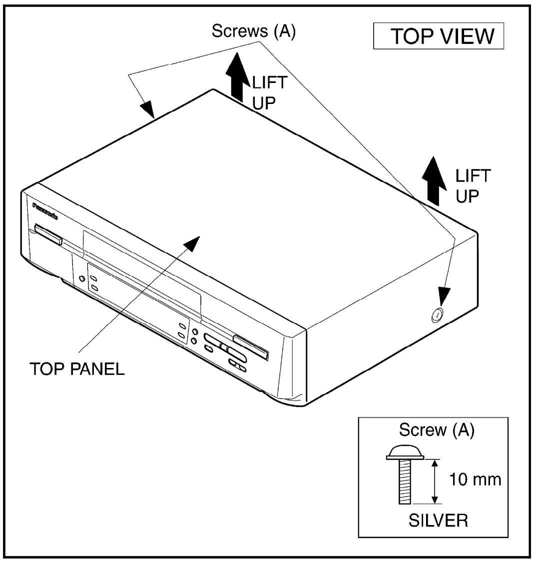


3.1.2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove	**2 Screws (A)**

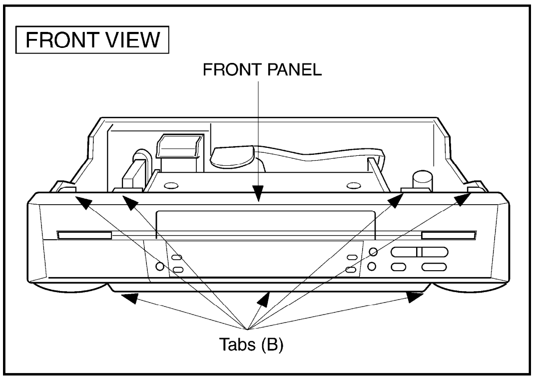
Fig. D2



2. REMOVAL OF THE FRONT PANEL UNIT

Unlock	**7 Tabs (B)**

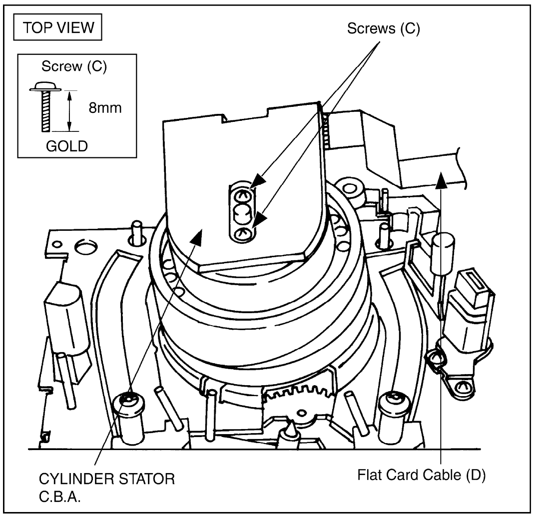
Fig. D3



3. REMOVAL OF THE CYLINDER STATOR C.B.A.

Remove	**2 Screws (C)**
Disconnect	**Flat Card Cable (D)**

Fig. D4



4. REMOVAL OF THE MECHANISM UNIT

Remove	**3 Screws (E)**
Remove	**2 Screws (F)**
Remove	**Screw (G)**

NOTE:

Keep pressing 2 stoppers on the Cassette Holder Plate and press the Cassette Holder Plate to the rear. /

[CAUTION -Mounting the Mechanism unit to Main C.B.A.]

A. When assembling, insert the Cylinder Flexible card to the Connector (P5001) carefully, to avoid any damage.

B. Be sure to tighten the Screw (G), otherwise, S/N ration may become worse.

Fig. D5-1

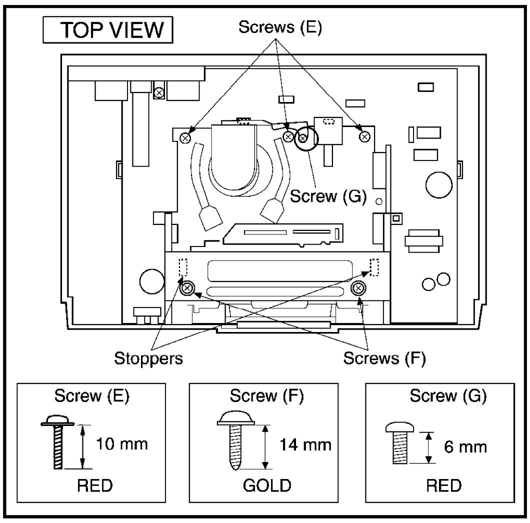
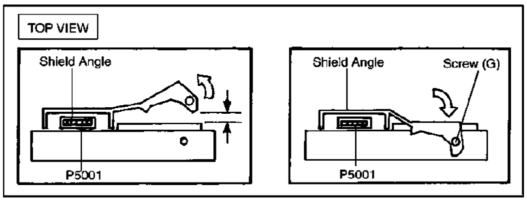


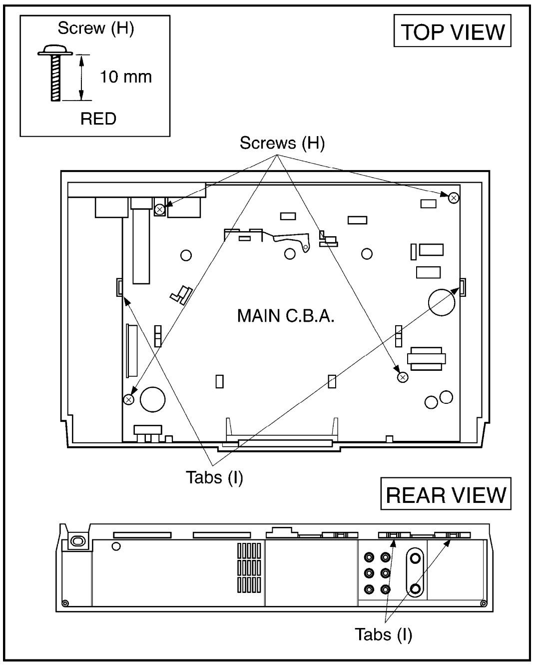
Fig. D5-2



5. REMOVAL OF THE MAIN C.B.A.

Disconnect	**4 Screws (H)**
Unlock	**4 Tabs (I)**

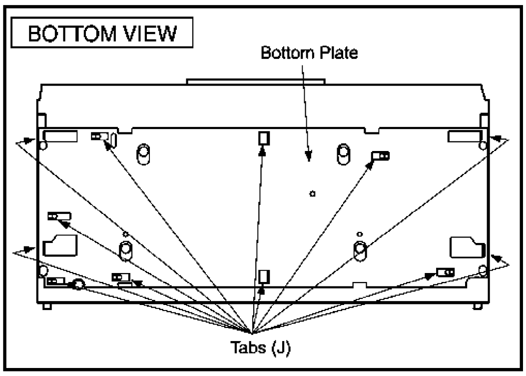
Fig. D6



6. REMOVAL OF THE BOTTOM PLATE

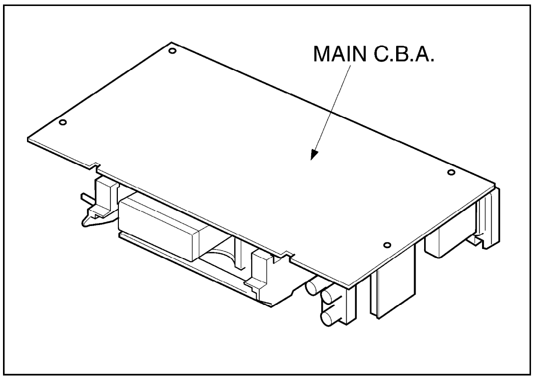
Unlock	**12 Tabs (J)**

Fig. D7



7. SERVICE POSITION

Fig. D8



3.2. MECHANICAL ADJUSTMENT PROCEDURES

Refer to the Service Manual for Z-Mechanism Chassis. / (Order No. VRD9802005C2)

3.3. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete adjustment procedures required for electric circuits of VCR.

3.3.1. TEST EQUIPMENT

To perform electrical adjustments following equipment is required.

1. VHS Alignment Tape. (VFJ8125H3F)

2. Monitor

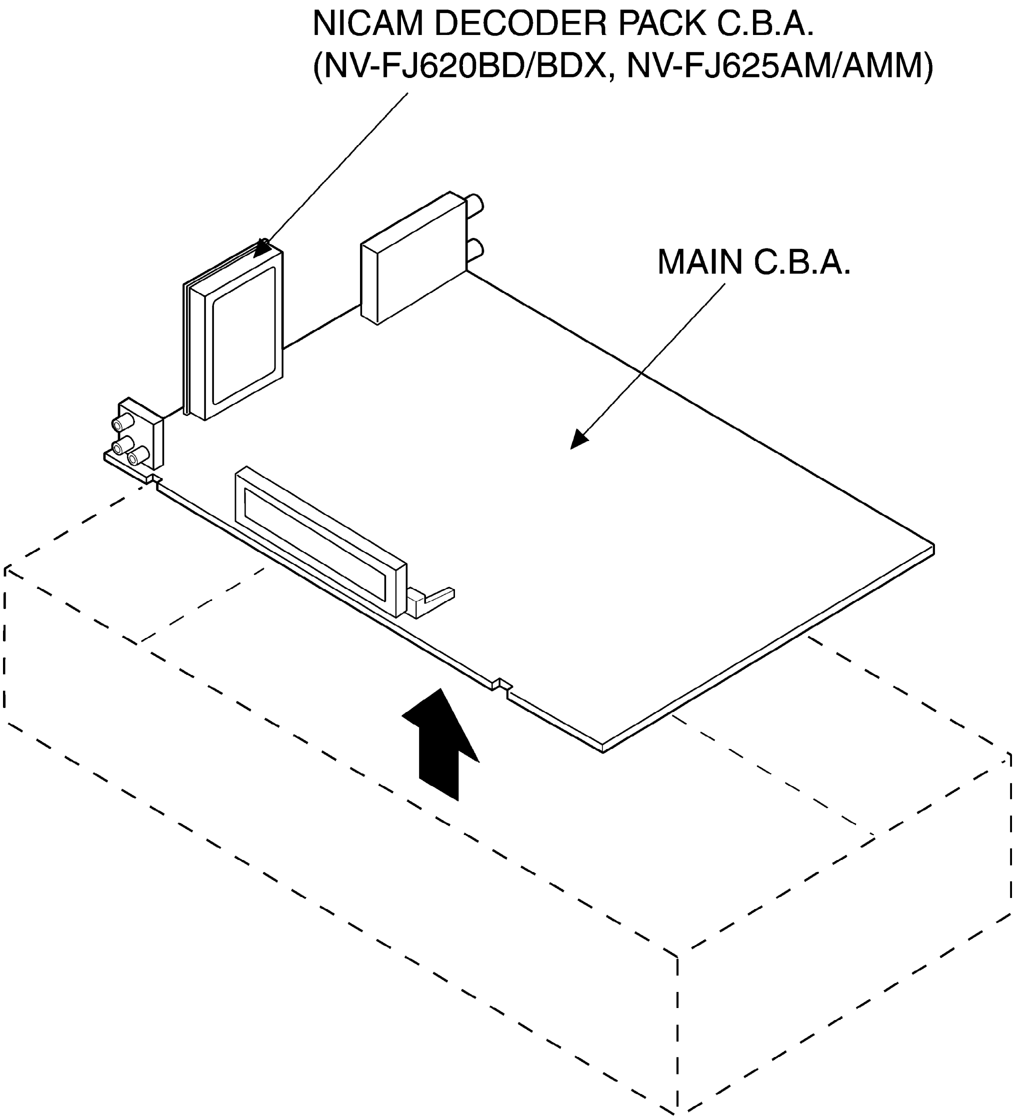
3.3.2. SERVO SECTION

PG SHIFTER ADJUSTMENT

	PROCEDURES	DISPLAY
1.	To set Service Mode, press the FF and EJECT keys simultaneously for more than 3 seconds.	0 00 00
2.	To set Service Mode 2, press the FF and EJECT keys simultaneously two times.	2 00 00
3.	Press the EJECT key for more than three seconds. / Digit of minite is put out light.	2 00 00
4.	Indicate 1 in the digit of minute by pressing the channel up/down keys. / (When the channel up key is pressed, 1 will be indicate in the digit of minute.)	2 01 00

	PROCEDURES	DISPLAY
5.	**Insert the Alignment Tape. (VFJ8125H3F)**	
6.	**This adjustment is automatically started after VCR goes PLAY mode. / (During the adjustment, the picture will be appeared on the monitor.)**	
7.	**When this Adjustment is terminated, the following operation will be activated.** **-Adjustment completed: The tape will be ejected.** **-Adjustment incompleted: "F2*" is indicated on the FIP.Check the Servo/System Control circuit and Cylinder Unit.**	
8.	**To release Service Mode 2, press FF and EJECT keys Simultaneously six times.**	

3.3.3. CIRCUIT BOARD LAYOUT



4. ABBREVIATIONS

443NT [L]	4.43 NTSC Ⓛ	BIL. [H]	BILINGUAL Ⓗ
A. COMP	AUDIO COMPONENT SIGNAL	BIL/M1[L]	BILINGUAL Ⓛ
A. COMPO	AUDIO COMPONENT SIGNAL	BS CLOCK	BS CLOCK
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ	BS DATA	BS DATA
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ	BS LCH IN	BS L CHANNEL INPUT
A. DEF [S]	AUDIO DEFEAT	BS MIX [H]	BS MIX Ⓗ
A.DEF [S] [L]	AUDIO DEFEAT	BS MON [H]	BS MONITOR Ⓗ
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ	BS MONI [H]	BS MONITOR Ⓗ
A. DUB [H]	AUDIO DUBBING Ⓗ	BS RCH IN	BS R CHANNEL INPUT
A. ERASE	AUDIO ERASE	BS VIDEO	BS VIDEO SIGNAL
A. H. SW	AUDIO HEAD SWITCHING PULSE	BS VIDEO/BS1	BS VIDEO SIGNAL
A. HEAD [R]	AUDIO HEAD (REC)	BS [H]	BS Ⓗ
A. HEAD [W]	AUDIO HEAD (PLAY)	BS. LEVEL	BS LEVEL
A. IN [L]	AUDIO INPUT (L)	BS. M [H]	BS MONITOR Ⓗ
A. IN [R]	AUDIO INPUT (R)	BS/VTR [H]	BS/VTR Ⓗ
A. MUT [H]	AUDIO MUTE Ⓗ	BUS CLK	BUS CLOCK
A. MUTE [H]	AUDIO MUTE Ⓗ	BUS LSN	BUS LISTEN
A. OUT [L]	AUDIO OUTPUT (L)	BUS TLK	BUS TALK
A. OUT [R]	AUDIO OUTPUT (R)	BUZZER	BUZZER
A. RF OUT	AUDIO RF SIGNAL OUTPUT	CAP EC	CAPSTAN TORQUE CONTROL
A/VS/S. DATA	AV SW/SERIAL DATA	CAP M GND	CAPSTAN MOTOR GND
AC ONLINE	AC ONLINE	CAP. ET	CAPSTAN TORQUE CONTROL
AC. O/EE. H	AC ONLINE/EE Ⓗ	CAP. FG1	CAPSTAN FG1 PULSE
AFC S C	AFC S CURVE	CAP. FG2	CAPSTAN FG2 PULSE
AFC [S]	AFC S CURVE	CAS. SW	CASSETTE SW
AFC. DEF	AFC DEFEAT	CCN	PLAYBACK CONTROL SIGNAL (–)
ARFC OUT	AUDIO RF SIGNAL OUTPUT	CCP	PLAYBACK CONTROL SIGNAL (+)
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL	CHM	CONTROL SIGNAL (+)
ART. V. MM	ARTIFICIAL VERTICAL SYNC	CHP	CONTROL SIGNAL (–)
	SIGNAL MONO MULTI	CINEM [L]	CINEMA Ⓛ
ART. V/H/N	ARTIFICIAL VERTICAL SYNC	CINEMA [L]	CINEMA Ⓛ
	SIGNAL Ⓗ / NORMAL	CINEMA/MIX	CINEMA/MIX
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL	CKL	RATCH LOCK
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE	CKS	SHIFT LOCK
AUDIO IN [L]	AUDIO INPUT (L)	CL	CLOCK
AUDIO IN [R]	AUDIO INPUT (R)	CLK	CLOCK
AUDIO OUT [L]	AUDIO OUTPUT (L)	CLK (C.G)	CLOCK
AUDIO OUT [R]	AUDIO OUTPUT (R)	CLOCK. IN	CLOCK INPUT
AUDIO SELECT [H]	AUDIO SELECT Ⓗ	CLP	CLAMP
AUDIO. L	AUDIO (L)	COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
AUDIO. R	AUDIO (R)	COLOR [H]	COLOUR Ⓗ
AV CNT	AV CONTROL	CONV	CONVERTOR
AV CTL	AV CONTROL	CS	CHIP SELECT
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK	CTL GND	CONTROL GND
AV. C.M.	AV CONTROL MODE	CTL HEAD [+]	CONTROL HEAD (+)
AVCNT/METER. R	AV CONTROL/LEVEL METER(R)	CTL HEAD [–]	CONTROL HEAD (–)
AVSW/METER. L	AV SW/LEVEL METER (L)	CTL[+]	CONTROL HEAD (+)
B MODE. H	B MODE Ⓗ	CTL[–]	CONTROL HEAD (–)
B.G.P	BURST GATE PULSE	CUE BIAS	CUE BIAS
BACKUP 5V	BACK UP 5V	CURRENT LIM	CURRENT LIMITER
BAND. U.E.	BAND U	CYL ET	CYLINDER TORQUE CONTROL
BANDVL. D	BAND VL	CYL GND	CYLINDER GND
BI/MI [L]	BILINGUAL/MIX Ⓛ	D.F.M. REC [H]	DELAYED FM RECORDING Ⓗ
BIL	BILINGUAL	D. FM REC [L]	DELAYED FM RECORDING Ⓛ
BIL [L]	BILINGUAL Ⓗ	D. GND	DIGITAL GND

D. REC [H]	DELAYED RECORDING Ⓗ	H.SYNC	HORIZONTAL SYNC
D4/S. LED	D4/STILL LED	H. AMP. SW	HEAD AMP SW PULSE
D4/STILLED	D4/STILL LED	H. P <R>	HEAD PHONE (R)
DAC [CLK]	TUNER DAC (CLOCK)	H. P <L>	HEAD PHONE (L)
DAC/FSCS	TUNER DAC/FS CHIP SELECT	H. P GND	HEAD PHONE GND
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ	H. P OUT [L]	HEAD PHONE OUTPUT (L)
DATA	DATA	H. P OUT [R]	HEAD PHONE OUTPUT (R)
DECODER [L]	DECODER (L)	H. SW	HEAD SW PULSE
DECODER [R]	DECODER (R)	HEAD PHONE [L]	HEAD PHONE (L)
DEW	DEW	HEAD PHONE [R]	HEAD PHONE (R)
DEW SNS	DEW SENSOR	HEAD SW	HEAD SW
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ	HEATER [+]	HEATER (+)
E. REC 5V	EXCEPT RECORDING 5V	HEATER [–]	HEATER (–)
EC	ERROR TORQUE CONTROL	HSS	HORIZONTAL SYNC SIGNAL
ECR	ERROR TORQUE CONTROL	HTR [+]	HEATER (+)
	REFERENCE VOLTAGE	HTR [–]	HEATER (–)
EDT TRIG [L]	EDIT TRIGGER Ⓛ	I RFE	REFERENCE CURRENT
EDIT [H]	EDIT Ⓗ	ICL	CONTROL AGC CIRCUIT
EE [H]	EE Ⓗ	IF	INTERMEDIATE FREQUENCY
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ	IN SELA 1	INPUT SELECT A1 POSITION
EE. VV. TR	EE/VV/TRICK PLAY	IN SELA 2	INPUT SELECT A2 POSITION
EJECT. PO	EJECT POSITION	IN SELA 3	INPUT SELECT A3 POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK	INS L/R [L]	INSERT Lch/Rch Ⓛ
ENV. SEL	ENVELOPE SELECT	INS. [H]	INSERT Ⓗ
ENVE. OUT	ENVELOPE OUTPUT	INSEL A1	INPUT SELECT A1 POSITION
ENVE. SEL	ENVELOPE SELECT	INSEL A2	INPUT SELECT A2 POSITION
ENV SELECT	ENVELOPE SELECT	INSERT	INSERT
EP [H]	LP Ⓗ	INSERT [H]	INSERT Ⓗ
EP/LP [H]	LP Ⓗ	IO CS	INPUT/OUTPUT CHIP SELECT
EP/ LP/SP	LP/SP	JOG1	JOG1
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ	JOG S3 LED/FOWRD	JOG LED/FORWARD LED
EPROMCS	EPROM CHIP SELECT	JOG/F. LED	JOG LED/FORWARD LED
EX. REC 5V	EXCEPT RECORDING 5V	JSB [H]	JSB Ⓗ
FF/REW [L]	FAST FORWARD/REWIND Ⓛ	JST. CLCK	JUST CLOCK
FG1 IN	FG1 PULSE INPUT	JST. CLK	JUST CLOCK
FG2 IN	FG2 PULSE INPUT	JST. CLOCK	JUST CLOCK
FILTER ADJ.	FILTER ADJUSTMENT	L. OUT	Lch OUTPUT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ	L. CH [H]	Lch Ⓗ
FLY ON [H]	FLYING ERASE HEAD ON Ⓗ	L. CH [L]	Lch Ⓛ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ	LED (MAIN)	LED (MAIN)
FM MUT [H]	FM AUDIO MUTE Ⓗ	LED (STEREO)	LED (STEREO)
FM MUTE [H]	FM AUDIO MUTE Ⓗ	LED (SUB)	LED (SUB)
FM OUT [L]	FM OUTPUT (L)	LED CKL	LED SERIAL CLOCK
FM OUT [R]	FM OUTPUT (R)	LED CKS	LED SERIAL CLOCK
FM PACK OUT [L]	FM PACK OUTPUT (L)	LED DATA	LED SERIAL DATA
FM PACK OUT [R]	FM PACK OUTPUT (R)	LINE IN 1 [L]	LINE INPUT 1 (L)
FM/BS SEL [L]	FM/BS SELECT (L)	LINE IN 1 [R]	LINE INPUT 1 (R)
FM/BS SEL [R]	FM/BS SELECT (R)	LINE IN 2 [L]	LINE INPUT 2 (L)
FS. CLK	FS CLOCK	LINE IN 2 [R]	LINE INPUT 2 (R)
FUL. E [H]	FULL ERASE HEAD ON Ⓗ	LINE IN V	LINE INPUT VIDEO
FULL. E [H]	FULL ERASE HEAD ON Ⓗ	LINE IN [L]	LINE INPUT (L)
FULL. E. 12V	FULL ERASE 12V	LINE IN [R]	LINE INPUT (R)
GND [A]	GND (ANALOGUE)	LINE OUT [L]	LINE OUTPUT (L)
GND [TU]	GND (TUNER)	LINE OUT [R]	LINE OUTPUT (R)
GND/N. SW. 12V	GND/NON SW 12V	LP [H]	LP Ⓗ

LPTRI [L]	LP TRICK PLAYⓁ	P. OFF [L]	POWER OFFⓁ
Lch/A. DUB	Lch/AUDIO DUBBING	PAL [H]	PALⒽ
M GND	MOTOR GND	PAL [L]/NTSC [H]	PAL Ⓛ/NTSCⒽ
M REG	MOTOR REGULATOR	PB ADJ. OUT	PLAYBACK ADJUST OUTPUT
MAIN OUT	MAIN OUTPUT	PB OUT	PLAYBACK OUTPUT
MAIN [L]	MAINⓁ	PB. H	PLAYBACKⒽ
MAIN/MONO	MAIN/MONAURAL	PFG	PG/FG
MAX IN	MAXIMUM INPUT	PHOTSN 1B	PHOTO SENSOR 1B
MES [H]	MESECAMⒽ	PICT. CNT	PICTURE CONTROL
MESE [H]	MESECAMⒽ	PLAY LED/RVS LED	PLAY LED/REVERSE LED
MESE [L]	MESECAMⒽ	PLAY. PO	PLAY POSITION
METER 5V	LEVEL METER 5V	PLAY/R.LED	PLAY LED/REVERSE LED
METER [L]	LEVEL METER (L)	PLY/DEW	PLAY/DEWⒽ
METER [R]	LEVEL METER (R)	POWER OFF [L]	POWER OFFⓁ
METER. L/AVS	LEVEL METER (L)	PREROLL [H]	PREROLLⒽ
METER. R/AVC	LEVEL METER (R)	PWRFAIL	POWER FAILURE DETECT
MI/BI [L]	MIXⒽ/BILINGUAL	R. CH [H]	RchⒽ
MIC GND	MIC GND	R. CH [L]	RchⓁ
MIC IN	MIC INPUT	R. ST	RESET
MIC IN [L]	MIC INPUT (L)	R/S/F	REVERSEⒽ/STOPⓂ/FORWARDⓁ
MIC IN [R]	MIC INPUT (R)	RCH [H]	RchⒽ
MIC [H]	MICⒽ	REC 12V	RECORDING 12V
MIX [H]	MIXⒽ	REC CHROMA	RECORDING CHROMINANCE SIGNAL
MIX [H]/CINEMA [L]	MIXⒽ/CINEMA SOUNDⓁ	REC H	RECORDINGⒽ
MIX/ CINE	MIXⒽ/CINEMA SOUNDⓁ	REC IN	RECORDING INPUT
MIX/CINEMA [L]	MIXⒽ/CINEMA SOUNDⓁ	REC OUT [L]	RECORDING OUTPUTⓁ
MN. H/M. L	MONAURALⒽ/MAINⓁ	REC START	RECORDING START
MN. H/MAI. L	MONAURALⒽ/MAINⓁ	REC VR [C]	RECORDING VOLUME (COMMON)
MN2/MES. L	MONAURAL 2/MESECAMⓁ	REC VR [L]	RECORDING VOLUME (L)
MODE SEL	AUDIO MODE SELECT	REC VR [R]	RECORDING VOLUME (R)
MODE SW	AUDIO MODE SW	REC Y	RECORDING LUMINANCE SIGNAL
MODE. S. IN	AUDIO MODE SELECT INPUT	REC [H]	RECORDINGⒽ
MODE. S. OUT	AUDIO MODE SELECT OUTPUT	REC. C	RECORDING CHROMINANCE SIGNAL
MONO [H]	MONAURALⒽ	REC. Y	RECORDING LUMINANCE SIGNAL
MONO [H]/MAIN [L]	MONAURALⒽ/MAINⓁ	REC/EE CTL	RECORDING/EE CONTROL
MONO2 [L]	MONAURAL 2 Ⓛ	REEL-T	REEL PULSE(TAKE-UP)
MONO2/MESE[FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)	REEL-S	REEL PULSE (SUPPLY)
MOTOR GND	MOTOR GND	REGULATOR FILTER	REGULATOR FILTER
MUTE	MUTE	RESET	RESET
N. A. REC [L]	NORMAL AUDIO RECORDINGⓁ	REV M F/R	REVIEW MOTOR
N. SW 12V	NON SW 12V		FORWARD/REVERSE
N. SW. 5. DET	NON SW 5V DETECT	REV M V1	REVIEW MOTOR V1
NICAM	NICAM	REV M V2	REVIEW MOTOR V2
NICAM [L]	NICAMⓁ	REV MOTOR F/R	REVIEW MOTOR
NOL [H]	PALⒽ/4.43 NTSCⓂ/3.58 NTSCⓁ		FORWARD/REVERSE
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAYⒽ	REV MOTOR V1	REVIEW MOTOR V1
NORMAL [H]	NORMALⒽ	REV MOTOR V2	REVIEW MOTOR V2
NR BIAS	NR BIAS	REV MOTOR [+]	REVIEW MOTOR (+)
NTSC [L]	NTSCⓁ	REV MOTOR [–]	REVIEW MOTOR (–)
OCH	CONTROL AGC CIRCUIT	REV. M. GND	REVIEW MOTOR GND
OUT	OUTPUT	RF.CHROMA	RF CHROMINANCE SIGNAL
P-OFF [H]	POWER OFFⒽ	RF OUT	RF OUTPUT
P-OFF [L]	POWER OFFⓁ	RF Y	RF LUMINANCE SIGNAL
P. FAIL	POWER FAILURE DETECT	RF. Y. IN	RF LUMINANCE SIGNAL INPUT
P. OFF [H]	POWER OFFⒽ	RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT

ROTAR. SW	ROTARY SW	T. BUSCLK	TIMER BUS CLOCK
ROTARY	ROTARY SW	T. BUSLSN	TIMER BUS LISTEN
RST	RESET	T. BUSTLK	TIMER BUS TALK
RST [L]	RESET Ⓛ	T. END [L]	TAPE END Ⓛ
Rch/INST	Rch/INSERT	T. PHOTO	TAKE-UP PHOTO TRANSISTOR
S IN	SERIAL DATA INPUT	TAPE END [L]	TAPE END Ⓛ
S OUT	SERIAL DATA OUTPUT	TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
S-PHOTO	SUPPLY PHOTO TRANSISTOR	TEST	TEST MODE
S-RL. PLS	SUPPLY REEL PULSE	TPZ	TRAPEZOIDAL WAVE CIRCUIT
S. CLK	SERIAL CLOCK	TRIC [L]	TRICK PLAY Ⓛ
S. CLK/AV	SERIAL CLOCK/AV	TRICK [L]	TRICK PLAY Ⓛ
S. DATA	SERIAL DATA	TRK. ENV	AUDIO TRACKING ENVELOPE DETECT
S. DATA/A	SERIAL DATA / AUDIO	TU. AUDIO	TUNER AUDIO
S. PHOTO	SUPPLY PHOTO TRANSISTOR	TU. GND	TUNER GND
S.TAB [L]	SAFETY TAB SW ON Ⓛ	TU. V. IN	TUNER VIDEO SIGNAL INPUT
S/P/N	SECAM/PAL/NTSC	TU. VIDEO	TUNER VIDEO
SC IN	SERIAL CLOCK INPUT	TUN NOR IN	TUNER NORMAL INPUT
SC OUT	SERIAL CLOCK OUTPUT	TUN R	TUNER AUDIO (R)
SCK SELECT	SERIAL CLOCK SELECT	TUN. AUDIO IN	TUNER AUDIO INPUT
SEL OUT [L]	SELECT OUTPUT (L)	TUNER 12V	TUNER 12V
SEL OUT [R]	SELECT OUTPUT (R)	TUNER L	TUNER AUDIO (L)
SHUTTLE 1	SHUTTLE 1	TUNER V IN	TUNER VIDEO SIGNAL INPUT
SIF	SOUND INTERMEDIATE FREQUENCY	TUNER [L]	TUNER AUDIO (L)
SLMUT [H]	INPUT SELECT MUTE Ⓗ	TUNER [N]	TUNER AUDIO (NORMAL)
SLNID [+]	SOLENOID (+)	TUNER [R]	TUNER AUDIO (R)
SLNID [–]	SOLENOID (–)	TUNER. 12	TUNER 12V
SLW TR. MM	SLOW TRACKING MONO MULTI	TUOFF [H]	TUNER OFF Ⓗ
SLW TR. REF	SLOW TRACKING REFERENCE	TV. AUDIO	TV AUDIO
	VOLTAGE	TV/VTR	TV/VTR
SNS. GND	SENSOR GND	TXTON [L]	TEXT ON Ⓛ
SOFT [H]	SOFT TAPE PLAY Ⓗ	U. REG45V	UNREGULATOR 45V
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ	UNREG	UNREGULATOR
SOLENOID ON [L]	SOLENOID ON Ⓛ	UNREG 19V	UNREGULATOR 19V
SP [H]	SP Ⓗ	V. REF	REFERENCE VOLTAGE
SP/L/SLP	SP/LP	V. EE [H]	VIDEO EE Ⓗ
SSS [L]	SLOW/STILL/STOP Ⓛ	V. EE [L]	VIDEO EE Ⓛ
STEREO LED	STEREO LED	VCO REF	REFERENCE OSCILLATOR
STEREO [H]	STEREO Ⓗ	VD. IN	VIDEO SIGNAL INPUT
STEREO [L]	STEREO Ⓛ	VD. OUT	VIDEO SIGNAL OUTPUT
STOP. PO	STOP POSITION	VIDEO EE [L]	VIDEO EE Ⓛ
STOP/5V	STOP POSITION/5V	VIDEO IN	VIDEO SIGNAL INPUT
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT	VIDEO OUT	VIDEO SIGNAL OUTPUT
STOP1/PAL : ST	STOP 1 POSITION/PAL	VM	MOTOR VOLTAGE
STOP2. PO	STOP 2 POSITION	VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
STOP2 / S-TAB	STOP POSITION/SAFETY TAB SW	VSS	VERTICAL SYNC SIGNAL
STREO [H]	STEREO Ⓗ	VTR [H]	VTR Ⓗ
SUB BIAS	SUB BIAS	VTR. 12V	VTR 12V
SUB. SW	SUB SW	X IN	OSCILLATOR INPUT
SVHS CAS [L]	S-VHS CASSETTE Ⓛ	X OUT	OSCILLATOR OUTPUT
SW. 5. DET	SW 5V DETECT		
SYNC [L]	SYNC Ⓛ		
SYSCON 5V	SYSTEM CONTROL 5V		
SYSTEM	SYSTEM SW		
T-PHOTO	TAKE-UP PHOTO TRANSISTOR		
T-RL. PLS	TAKE-UP REEL PULSE		

5. INPUT/OUTPUT CHART

5.1. INPUT/OUTPUT CHART FOR IC6001

6. WAVEFORM TABLE

7. BLOCK DIAGRAMS

7.1. SYSTEM CONTROL& SERVO/ TIMER SECTION BLOCK DIAGRAM

7.2. VIDEO SECTION BLOCK DIAGRAM

7.3. FM AUDIO SECTION BLOCK DIAGRAM

8. SCHEMATIC DIAGRAMS

8.1. POWER SECTION IN MAIN SCHEMATIC DIAGRAM

8.2. SYSTEM CONTROL& SERVO/ TIMER SECTION IN MAIN SCHEMATIC DIAGRAM

8.3. VIDEO SECTION IN MAIN SCHEMATIC DIAGRAM

8.4. CYLINDER MOTOR UNIT SCHEMATIC DIAGRAM

8.5. CYLINDER MOTOR UNIT

8.6. AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

8.7. NICAM DECODER PACK SCHEMATIC DIAGRAM (NV-FJ620BD/ BDX, NV-FJ625AM/AMM)

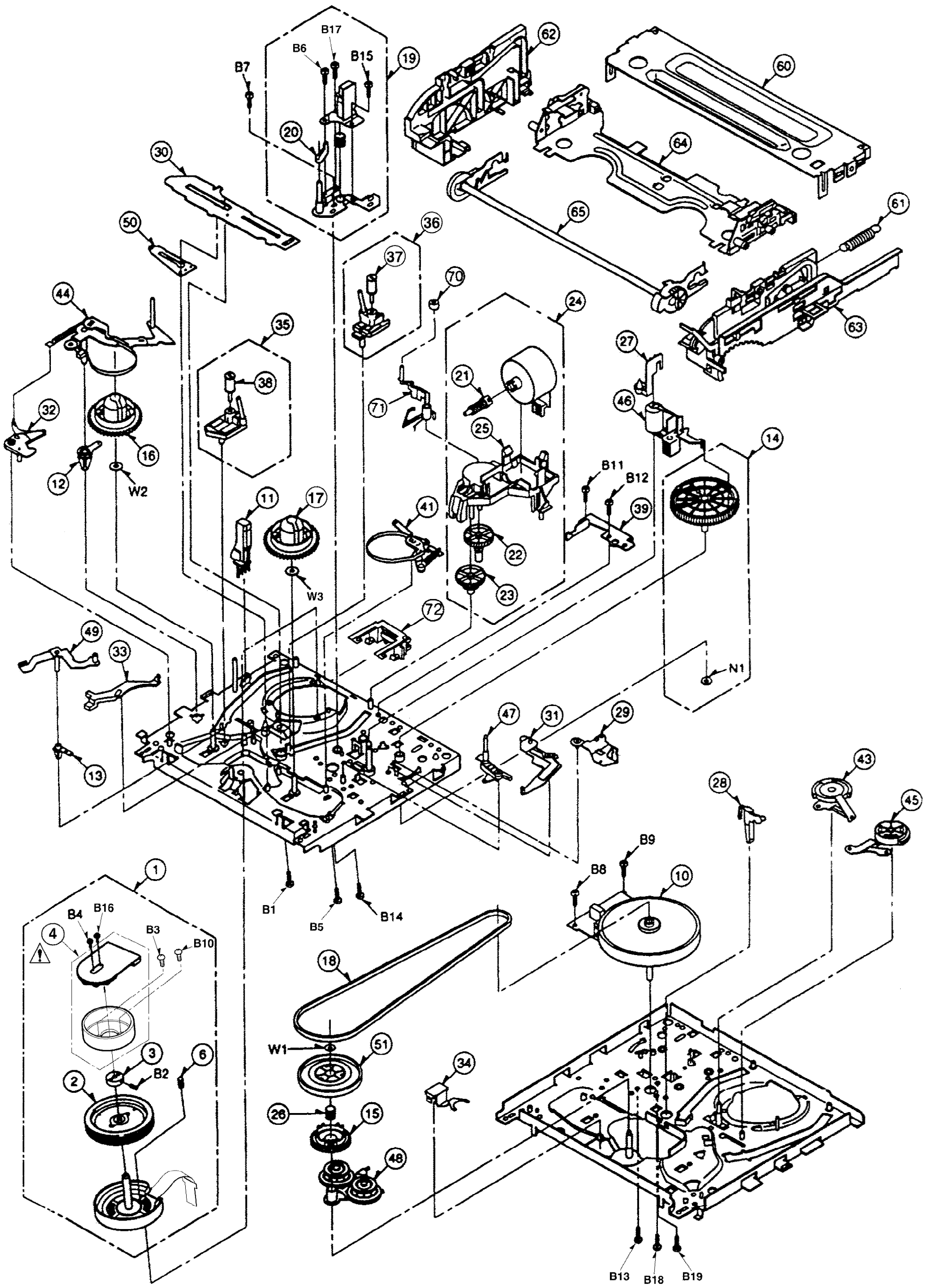
9. CIRCUIT BOARD ASSEMBLIES

9.1. MAIN C.B.A.

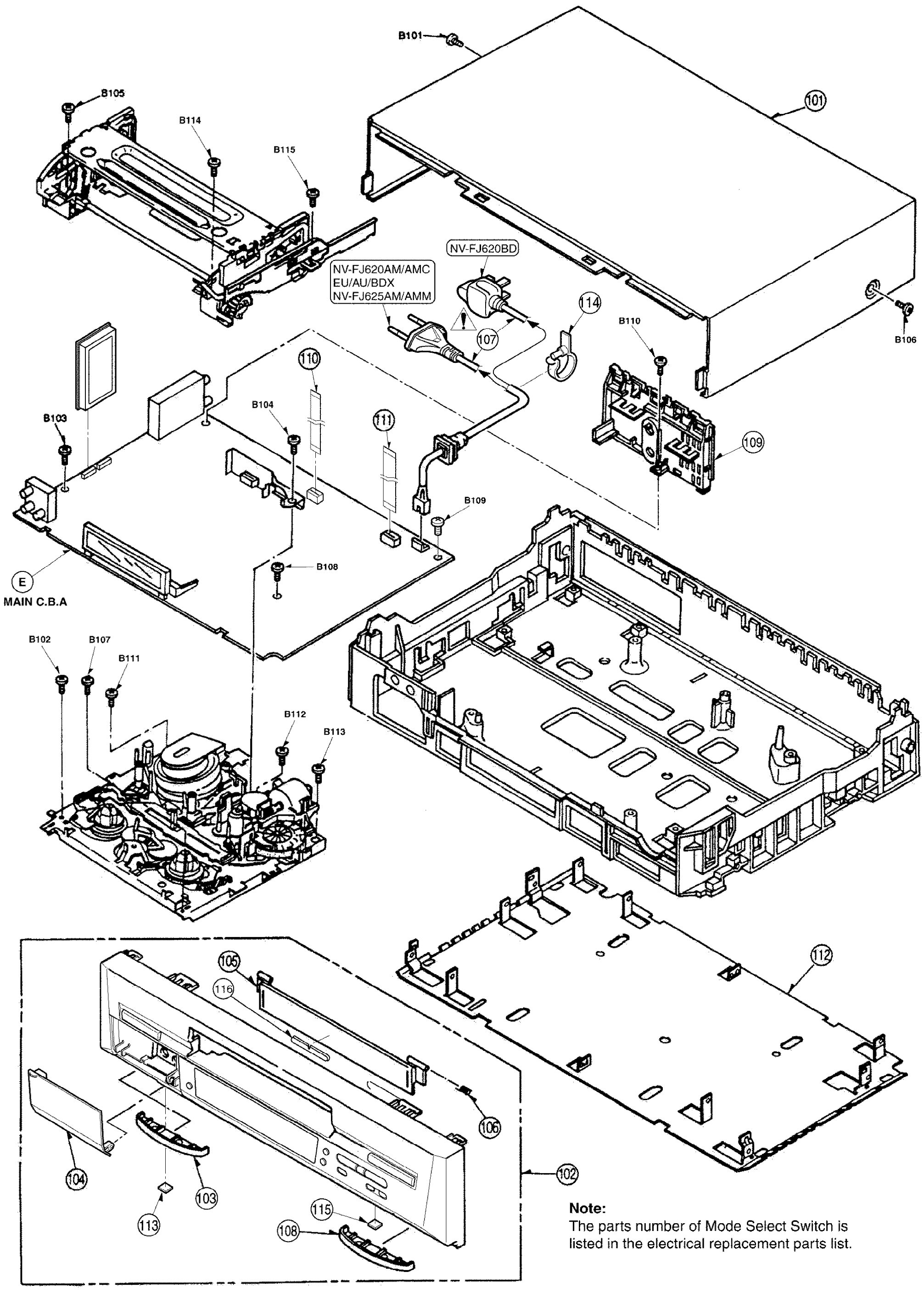
9.2. NICAM DECODER PACK C.B.A.

10. EXPLODED VIEWS

10.1. CHASSIS PARTS SECTION

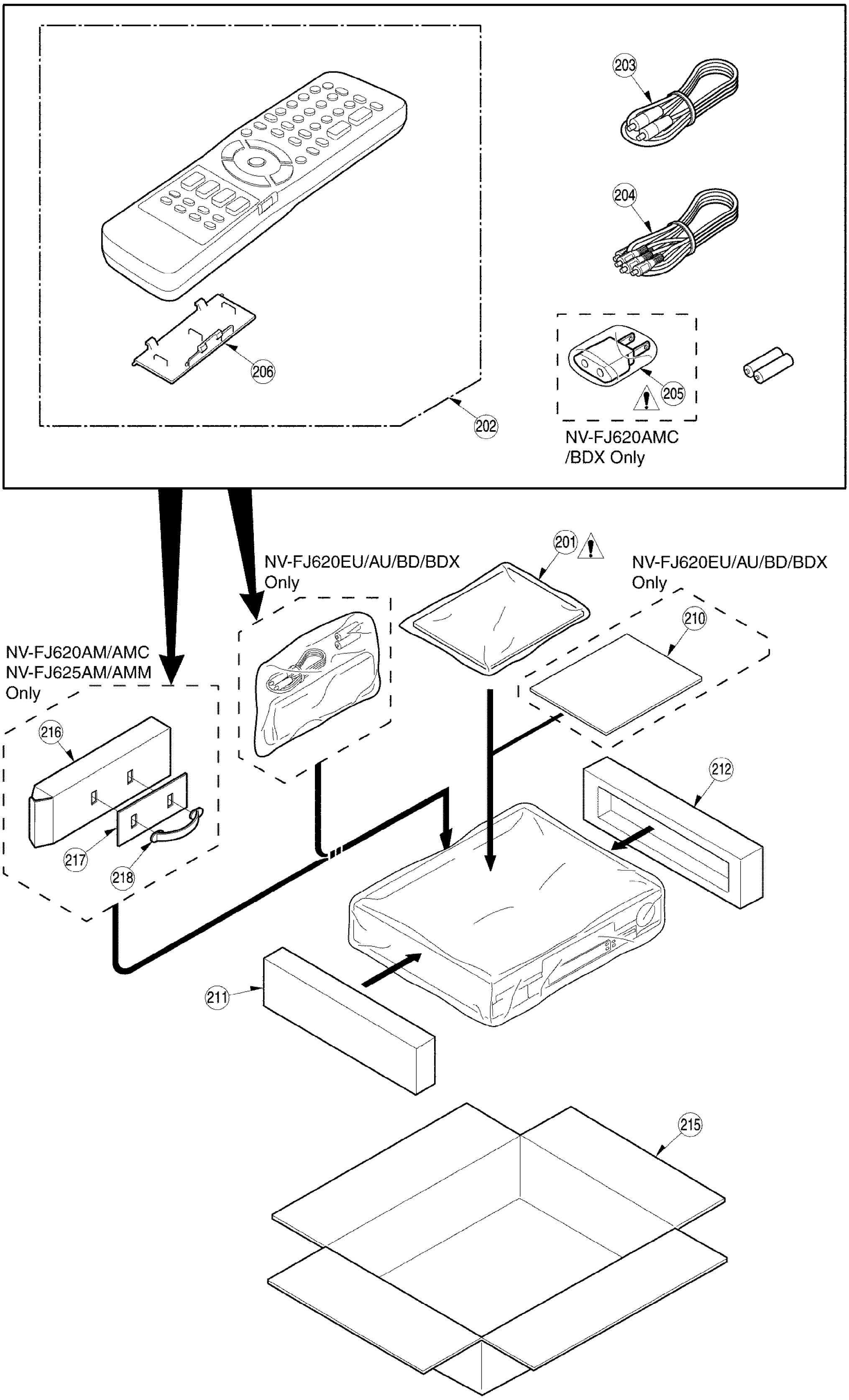


10.2. CASING PARTS SECTION



Note:
The parts number of Mode Select Switch is listed in the electrical replacement parts list.

10.3. PACKING PARTS SECTION



11. REPLACEMENT PARTS LIST

11.1. MECHANICAL REPLACEMENT PARTS LIST

Note: 1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

11.1.1. CHASSIS PARTS LIST

Ref. No.	Part No.	Part Name & Description	Remarks
1	VEG1522	CYLINDER UNIT	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
	VEG1565	CYLINDER UNIT	[SUPPLIED / FROM MAV] / NV -FJ620AU/ / EU
2	VXP2001	UPPER CYLINDER UNIT	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
	VXP2086	UPPER CYLINDER UNIT	[SUPPLIED / FROM MAV] / NV -FJ620AU/ / EU
3	VDB1256	CYLINDER RETAINER	
4	VEM0715	CYLINDER MOTOR UNIT	⚠
6	VXS0135	EARTH BRUSH UNIT	
10	VEK9069	CAPSTAN UNIT	
11	L1AZ00000004	FE HEAD	
12	VDB1431	TENSION ARM BOSS	
13	VDB1460	SUPPLY BRAKE ARM BOSS	
14	VDG1220KIT	MAIN CAM GEAR	
15	VDG1221	CONVERSION GEAR	
16	VDR0350	REEL TABLE	
17	VDR0350	REEL TABLE	
18	VDV0382	CAPSTAN BELT	
19	VED0412	A/C HEAD UNIT	
20	VMX2656	P4 CAP	
21	VDG1217	WORM GEAR	
22	VDG1218	WORM WHEEL GEAR	
23	VDG1219	CENTRE GEAR	
24	VEM0604	LOADING MOTOR UNIT	
25	VMD2619	MOTOR BRACKET	
26	VMB3045	CONVERSION GEAR SPRING	
27	VMD2620	OPENER PIECE	
28	VMD2738	LED PRISM	
29	VML3165	DRIVE RACK ARM	
30	VML3166	MAIN LEVER	
31	VML3167	DRIVE MAIN LEVER ARM	
32	VML3172	SUPPLY SPRING ARM	
33	VML3176	CONVERSION LEVER A	
34	VML3177	CONVERSION LEVER B	
35	VXA6040	INCLINED BASE (S) UNIT	
36	VXA5854	INCLINED BASE (T) UNIT	
37	VXP1891	ROLLER POST UNIT	
38	VXP1891	ROLLER POST UNIT	
39	VMA9672	SUPPORT ANGLE	
41	VXL2667	TAKE UP BRAKE ARM UNIT	
43	VXL2670	TAKE UP LOADING ARM UNIT	
44	VXL2793	TENSION ARM UNIT	
45	VXL2672	SUPPLY LOADING ARM UNIT	
46	VXL2785	PINCH ARM UNIT	
47	VXL2996	P5 ARM UNIT	

Ref. No.	Part No.	Part Name & Description	Remarks
48	VXL2792	IDLER ARM UNIT	
49	VXL2733	SUPPLY BRAKE ARM UNIT	
50	VXL2747	LOADING RACK UNIT	
51	VXP2035	CENTRE CLUTCH UNIT	
60	VMA9516	TOP PLATE	
61	VMB3047	CONNECTION SPRING	
62	VMD3379	SIDE PLATE (L)	
63	VXA6540	SIDE PLATE (R) UNIT	
64	VXA5746	CASSETTE HOLDER UNIT	
65	VXP1730	MAIN SHAFT UNIT	
70	VDP1668-K	CLEANER ROLLER	
71	VML3164	CLEANER ARM	
72	VMD3795	FPC HOLDER	
B1	VHD1118	SCREW	
B2	VHD0842	SCREW	
B3	VHD0843	SCREW	
B4	VHD0844	SCREW	
B5	VHD1118	SCREW	
B6	VHD1066	SCREW	
B7	VHD1044	SCREW	
B8	VHD1060	SCREW	
B9	VHD1071	SCREW	
B10	VHD0843	SCREW	
B11	XTS26+6F	SCREW	
B12	XTN26+6F	SCREW	
B13	XTN26+7J	SCREW	
B14	VHD1095	SCREW	
B15	VHD1185	SCREW	
B16	VHD0844	SCREW	
B17	VHD1066	SCREW	
B18	XTN26+7J	SCREW	
B19	XTN26+7J	SCREW	
N1	VHN0311	PUSH NUT	
W1	VMX2208	WASHER	
W2	VMX3022	WASHER	
W3	VMX3022	WASHER	

11.1.2. CASING PARTS SECTION

Ref. No.	Part No.	Part Name & Description	Remarks
101	VGM1695	TOP PANEL	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
	VGM1733	TOP PANEL	NV-FJ620AU/ / EU
102	VYP8233	FRONT PANEL UNIT	[SUPPLIED / FROM MAV] / NV -FJ620AM/ / AMC
	VYP8235	FRONT PANEL UNIT	[SUPPLIED / FROM MAV] / NV -FJ620EU
	VYP8236	FRONT PANEL UNIT	[SUPPLIED / FROM MAV] / NV -FJ620BD/ / BDX
	VYP8237	FRONT PANEL UNIT	[SUPPLIED / FROM MAV] / NV -FJ625AM/ / AMM
	VYP8279	FRONT PANEL UNIT	[SUPPLIED / FROM MAV] / NV -FJ620AU
103	VKA0192	LEG	
104	VKF3394	FRONT JACK DOOR	[SUPPLIED / FROM MAV] / NV -FJ620AM/ / AMC/AU/EU
	VKF3395	FRONT JACK DOOR	[SUPPLIED / FROM MAV] / NV -FJ620BD/ / BDX
	VKF3396	FRONT JACK DOOR	[SUPPLIED / FROM MAV] / NV -FJ625AM/ / AMM
105	VKF3347	BLINDER PANEL	[SUPPLIED / FROM MAV]
106	VMB2521	BLINDER SPRING	
107	VJA1038	AC CORD	⚠ / NV-FJ620AM/ / AMC/AU/ EU/ / BDX,FJ625AM/ / AMM
	VJA1138	AC CORD	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620BD
108	VKA0192	LEG	
109	VJH1142	ANT BOARD	
110	VWJ06D2150MM	FLAT CARD CABLE (6P)	[SUPPLIED / FROM MAV] / AC HEAD - / MAIN(P4001)
111	VWJ1472	FLAT CARD CABLE (9P)	[SUPPLIED / FROM MAV] / UDD - MAIN / (P2501)
112	VKU0573	BOTTOM PLATE	[SUPPLIED / FROM MAV]
113	RKA0072	FOOT	
114	VJF0139	AC CORD CLAMP	
115	RKA0072	FOOT	
116	VGB0554	SUPER DRIVE BADGE	[SUPPLIED / FROM MAV]
B101	XTW3+10TFC	SCREW	
B102	VHD0168	SCREW	
B103	VHD1092	SCREW	
B104	XTN26+6JR	SCREW	
B105	XTV26+8FR	SCREW	
B106	XTW3+10TFC	SCREW	
B107	VHD0168	SCREW	
B108	VHD1092	SCREW	
B109	VHD1092	SCREW	
B110	VHD1092	SCREW	
B111	VHD1092	SCREW	
B112	VHD1092	SCREW	
B113	VHD1092	SCREW	
B114	XTV26+8FR	SCREW	
B115	XTV26+8FR	SCREW	

11.1.3. PACKING PARTS SECTION

Ref. No.	Part No.	Part Name & Description	Remarks
201	VQT9302	OPERATING INSTRUCTIONS / (ENGLISH / ARABIC)	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620AM/ / AMC
	VQT9303	OPERATING INSTRUCTIONS / (ENGLISH)	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620AU/ / EU
	VQT9304	OPERATING INSTRUCTIONS / (RUSSIAN)	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620EU
	VQT9305	OPERATING INSTRUCTIONS / (RUSSIAN)	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620AU
	VQT9306	OPERATING INSTRUCTIONS / (ENGLISH)	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620BD/BDX, / FJ625AM/AMM
	VQT9307	OPERATING INSTRUCTIONS / (CHINESE)	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620BD
202	N2QAKB000005	REMOTE CONTROLLER	[SUPPLIED / FROM MAV] / NV -FJ620AM/ / AMC / N2QAKB000005
	N2QAKB000006	REMOTE CONTROLLER	[SUPPLIED / FROM MAV] / NV -FJ620AU/ / BD/BDX/EU, / FJ625AM/AMM
203	VJA1123	RF COAXIAL CABLE	NV-FJ620AU/ / EU
	VJA1124	RF COAXIAL CABLE	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
204	K2KA6BA00002	AV CABLE	[SUPPLIED / FROM MAV]
205	VJP2974	AC PLUG ADAPTOR	⚠ / NV-FJ620AMC/ / BDX / K2DA42E00001
206	R0186-720010	BATTERY COVER	[SUPPLIED / FROM MAV]
210	VPN5368	ACCESSORY PAD	NV-FJ620AU/ / BD/BDX/EU
211	VPN5359	CUSHION (L)	
212	VPN5360	CUSHION (R)	
215	VPG0K39	PACKING CASE	[SUPPLIED / FROM MAV] / NV -FJ620AM
	VPG0K40	PACKING CASE	[SUPPLIED / FROM MAV] / NV -FJ620EU
	VPG0K41	PACKING CASE	[SUPPLIED / FROM MAV] / NV -FJ620AU
	VPG0K42	PACKING CASE	[SUPPLIED / FROM MAV] / NV -FJ620BD
	VPG0K43	PACKING CASE	[SUPPLIED / FROM MAV] / NV -FJ620BDX
	VPG0K44	PACKING CASE	[SUPPLIED / FROM MAV] / NV -FJ625AM
	VPG0L78	PACKING CASE	[SUPPLIED / FROM MAV] / NV -FJ620AMC
	VPG0L79	PACKING CASE	[SUPPLIED / FROM MAV] / NV -FJ625AMM
216	VPK2203	ACCESSORIES PACKING	NV-FJ620AM/ / AMC
217	VPN4804	PAD	NV-FJ620AM/ / AMC
218	VPQ0134	HANDLE	NV-FJ620AM/ / AMC, / FJ625AM/AMM
		SERVICE FIXTURES & TOOLS	
	VFJ8125H3F	VHS ALIGNMENT TAPE (PAL)	
	VFK0335	RETAINING RING REMOVER / (3mm/4mm)	
	VFK0329	POST ADJUSTMENT	

Ref. No.	Part No.	Part Name & Description	Remarks
		SCREWDRIVER	
	VFK0326	HEX WRENCH SET	
	VFK0132	BACK TENSION METER	
	VFK27	HEAD CLEANING STICK	
	VFK1024	MOLYTONE GREASE	
	VFK0330	FINE ADJUSTMENT GEAR / DRIVER	
	VFK1301	SILICONE GREASE	
	VFK1298	FOIL GREASE	
	VFK1493P	PROGRAM NAVI DATA BACK-UP / TOOL	

11.2. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE : Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS , K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf) , P=uuF.
4. The P.C.Board units marked width"■"show below the main assembled parts.
5. The marking(RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP06E21M	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ620AM/ / AMC
■	VEP06E21N	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ620EU
■	VEP06E21P	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ620AU
■	VEP06E21Q	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ620BD/ / BDX
			INCLUDING / THE NICAM / DECODER PACK / C.B.A. / (VEP07A18Q).
■	VEP07A18Q	NICAM DECODER PACK C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ620BD/ / BDX
			INCLUDED IN / MAIN C.B.A. / (VEP06E21Q).
■	VEP06E21S	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ625AM/ / AMM
			INCLUDING / THE NICAM / DECODER PACK / C.B.A. / (VEP07A18P).
■	VEP07A18P	NICAM DECODER PACK C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ625AM/ / AMM
			INCLUDED IN / MAIN C.B.A. / (VEP06E21S).
■	------------	CYLINDER STATOR C.B.A.	INCLUDED IN / CYLINDER / STATOR UNIT / (VEM0715).
■	------------	CAPSTAN DRIVE C.B.A.	INCLUDED IN / CAPSTAN UNIT / (VEK9069).

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP06E21M	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ620AM/ / AMC
■	VEP06E21N	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ620EU
■	VEP06E21P	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ620AU
■	VEP06E21Q	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ620BD/ / BDX
■	VEP06E21S	MAIN C.B.A.	[SUPPLIED / FROM MAV] / (RTL) / NV-FJ625AM/ / AMM
B6001	VSB0205	LITHIUM BATTERY	⚠
C1120	ECQU2A333MVA	P.CAPACITOR 250V 0.033U	⚠ / NV-FJ620AM/ / AMC, / FJ625AM/AMM
C1120	ECQU2A683MVA	P.CAPACITOR 100V 0.068U	⚠ / NV-FJ620EU/ / AU/BD/ BDX
C1121	ECKWNA331MBV	CERAMIC CAPACITOR	⚠ / [SUPPLIED / FROM MAV]
C1123	ECKWNA102MEV	CERAMIC CAPACITOR	⚠ / [SUPPLIED / FROM MAV]
C1140	ECEC2GG820GP	E.CAPACITOR 400V 82U	NV-FJ620AM/ / AMC/EU/AU, / FJ625AM/AMM
C1140	ECEC2GG680F	E.CAPACITOR 400V 68U	[SUPPLIED / FROM MAV] / NV -FJ620BD/ / BDX
C1151	ECQB1H473JM	P.CAPACITOR 50V 0.047U	[SUPPLIED / FROM MAV]
C1152	ECQB1H103JM	POLYESTER CAPACITOR	[SUPPLIED / FROM MAV]
C1153	ECQB1H104JM	P.CAPACITOR 50V 0.1U	[SUPPLIED / FROM MAV]
C1154	ECQB1H223JM	P.CAPACITOR 50V 0.022U	[SUPPLIED / FROM MAV]
C1155	F1A3A271A028	E.CAPACITOR 1KV 270U	[SUPPLIED / FROM MAV] / F1A3A271A034
C1200	ECQB1H104JM	P.CAPACITOR 50V 0.1U	[SUPPLIED / FROM MAV]
C1210	F1B3A332A004	E.CAPACITOR 1KV 3300U	[SUPPLIED / FROM MAV]
C1230	VCEA1HJB560B	E.CAPACITOR 50V 56U	[SUPPLIED / FROM MAV] / F2A1H560A101
C1250	VCEA1CJH122	E.CAPACITOR 16V 1200U	[SUPPLIED / FROM MAV]
C1251	ECA1CM101	E.CAPACITOR 16V 100U	
C1260	VCEA1AJH182	E.CAPACITOR 10V 1800U	
C1261	ECA1AM221	E.CAPACITOR 10V 220U	
C1270	VCEA1HJB560B	E.CAPACITOR 50V 56U	[SUPPLIED / FROM MAV] / F2A1H560A101
C1280	VCEA1AJB101B	E.CAPACITOR 10V 100U	[SUPPLIED / FROM MAV] / F2A1A101A089
C1301	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C1303	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1304	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1341	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C1342	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	
C1352	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C2001	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	
C2002	ECEA1CKA470	E.CAPACITOR 16V 47U	
C2003	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C2004	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	
C2005	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C2006	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
C2007	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	ECJ2XC1H471J
C2008	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	ECJ2XC1H471J
C2012	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	
C2013	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C2014	ECUM1E563KBN	C.CAPACITOR CH 25V 0.056U	
C2015	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C2051	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C2053	ECEA1CKA100	E.CAPACITOR 16V 10U	
C2054	ECUX1H392KBN	C.CAPACITOR CH 50V 3900P	ECJ2XB1H392K
C2055	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C2501	ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	
C2502	ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	
C2503	ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	
C2504	ECUM1E683KBN	C.CAPACITOR CH 25V 0.068U	
C2505	ECUM1C154KBN	C.CAPACITOR CH 16V 0.15U	
C2506	ECUM1C154KBN	C.CAPACITOR CH 16V 0.15U	
C2507	ECUM1C154KBN	C.CAPACITOR CH 16V 0.15U	
C2508	ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	
C2509	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C2510	ECEA0JKA221	E.CAPACITOR 6.3V 220U	
C2551	ECUM1E563KBN	C.CAPACITOR CH 25V 0.056U	
C2552	ECUM1E563KBN	C.CAPACITOR CH 25V 0.056U	
C3001	ECEA1CKA100	E.CAPACITOR 16V 10U	
C3002	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	
C3003	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3004	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	ECJ2XC1H121J
C3006	ECUM1C154KBN	C.CAPACITOR CH 16V 0.15U	
C3007	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	
C3008	ECA0JM471G	E.CAPACITOR 6.3V 470U	ECA0JM471
C3009	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3010	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3011	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3012	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3013	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3014	ECEA1EKA3R3	E.CAPACITOR 25V 3.3U	F2A1E3R3A008
C3015	ECEA1CKA100	E.CAPACITOR 16V 10U	
C3016	ECEA1HKA010	E.CAPACITOR 50V 1U	
C3017	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	
C3018	ECEA1HKA010	E.CAPACITOR 50V 1U	
C3019	ECEA1HKA010	E.CAPACITOR 50V 1U	
C3021	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	
C3022	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3025	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3026	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3027	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	
C3028	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3029	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C3033	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
C3034	ECEA1HKA010	E.CAPACITOR 50V 1U	
C3035	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3036	ECUM1C154KBN	C.CAPACITOR CH 16V 0.15U	
C3037	ECUX1H223KBN	C.CAPACITOR CH 50V 0.022U	ECJ2XB1H223K
C3038	ECEA1HKAR47	E.CAPACITOR 50V 0.47U	
C3039	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	

Ref. No.	Part No.	Part Name & Description	Remarks
C3040	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	ECJ2XB1H472K
C3041	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	
C3042	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C3043	ECEA1EKA3R3	E.CAPACITOR 25V 3.3U	F2A1E3R3A008
C3044	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	
C3045	ECUM1H030CCN	C.CAPACITOR CH 50V 3P	
C3046	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C3047	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C3049	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	F1J1C224A090
C3050	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C3051	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	
C3054	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3055	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	ECJ2XC1H100D
C3058	ECUM1H070DCN	C.CAPACITOR CH 50V 7P	
C3062	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	
C3063	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	
C3065	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	
C3301	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C3303	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C3304	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C3305	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	F1J1C224A090
C3307	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	F1J1C224A090
C3405	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C4001	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	NV-FJ620EU/ / AU / ECJ2XC1H471J
C4002	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	NV-FJ620EU/ / AU / ECJ2XC1H471J
C4008	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	
C4009	ECQV1H154JL	P.CAPACITOR 50V 0.15U	[SUPPLIED / FROM MAV]
C4010	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C4012	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C4013	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C4014	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	NV-FJ620EU/ / AU / ECJ2XC1H471J
C4015	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	NV-FJ620EU/ / AU / ECJ2XC1H471J
C4016	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	NV-FJ620EU/ / AU / ECJ2XC1H471J
C4017	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	NV-FJ620EU/ / AU / ECJ2XC1H471J
C4027	ECEA0JKA221	E.CAPACITOR 6.3V 220U	NV-FJ620EU/ / AU
C4028	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	NV-FJ620EU/ / AU
C4032	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	
C4033	ECUX1H223KBN	C.CAPACITOR CH 50V 0.022U	ECJ2XB1H223K
C4034	ECQB1H333JF	P.CAPACITOR 50V 0.033U	
C4035	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C4036	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C4037	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	ECJ2XB1H472K
C4038	ECUX1H223KBN	C.CAPACITOR CH 50V 0.022U	ECJ2XB1H223K
C4039	ECEA0JKA221	E.CAPACITOR 6.3V 220U	
C4040	ECUM1H471KBN	C.CAPACITOR CH 50V 470P	
C4041	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	
C4042	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	
C4043	ECEA0JKA220	E.CAPACITOR 6.3V 22U	

Ref. No.	Part No.	Part Name & Description	Remarks
C4048	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	NV-FJ620EU/ / AU / ECJ2XC1H471J
C4049	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	NV-FJ620EU/ / AU / ECJ2XC1H471J
C4061	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C4062	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C4063	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	
C4064	ECEA1EKA3R3	E.CAPACITOR 25V 3.3U	F2A1E3R3A008
C4065	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	
C4066	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	NV-FJ620EU/ / AU / ECJ2XC1H101J
C4502	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4503	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4504	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4505	ECEA0JKA330	E.CAPACITOR 6.3V 33U	
C4506	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4507	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C4508	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	
C4509	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C4510	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C4511	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C4512	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	F1J1C224A090
C4513	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C4514	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4515	ECEA0JKA330	E.CAPACITOR 6.3V 33U	
C4516	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4517	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C4519	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4520	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4521	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4522	ECEA0JKA220	E.CAPACITOR 6.3V 22U	
C4524	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C4525	ECEA1CKA470	E.CAPACITOR 16V 47U	
C4528	ECQB1H473JM	P.CAPACITOR 50V 0.047U	[SUPPLIED / FROM MAV]
C4530	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	
C4531	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	
C4533	ECQB1H473JM	P.CAPACITOR 50V 0.047U	[SUPPLIED / FROM MAV]
C4534	ECQB1H153JM	P.CAPACITOR 50V 0.015U	[SUPPLIED / FROM MAV]
C4535	ECQB1H153JM	P.CAPACITOR 50V 0.015U	[SUPPLIED / FROM MAV]
C4536	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C4538	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C4601	ECEA1CKA100	E.CAPACITOR 16V 10U	
C4603	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	ECJ2XB1H152K
C5001	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C5002	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C5003	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C5004	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C5005	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C5006	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C5007	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C5008	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	
C5009	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C5010	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C5051	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	

Ref. No.	Part No.	Part Name & Description	Remarks
C6001	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	
C6002	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	
C6003	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	
C6004	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	
C6005	ECEA1EKA3R3	E.CAPACITOR 25V 3.3U	F2A1E3R3A008
C6006	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C6007	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	
C6008	ECA0JM471G	E.CAPACITOR 6.3V 470U	ECA0JM471
C6009	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6010	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6011	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6014	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C6015	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C6016	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C6017	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	
C6018	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6019	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C6020	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C6021	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C6022	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	ECJ2XC1H471J
C6023	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	ECJ2XC1H471J
C7301	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	NV-FJ620BD/ / BDX, / FJ625AM/AMM / ECJ1XF1H103Z
C7304	VCEA0JAW101	E.CAPACITOR 6.3V 100U	NV-FJ620BD/ / BDX, / FJ625AM/AMM
C7307	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	NV-FJ620BD/ / BDX, / FJ625AM/AMM / ECJ1XF1H103Z
C7308	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	NV-FJ620BD/ / BDX, / FJ625AM/AMM
C7311	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	NV-FJ620BD/ / BDX, / FJ625AM/AMM
C7312	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	NV-FJ620BD/ / BDX, / FJ625AM/AMM / ECJ1XC1H220J
C7313	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	NV-FJ620BD/ / BDX, / FJ625AM/AMM
C7315	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	NV-FJ620BD/ / BDX, / FJ625AM/AMM
C7316	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	NV-FJ620BD/ / BDX, / FJ625AM/AMM
C7317	VCEA1CAW100	E.CAPACITOR 16V 10U	NV-FJ620BD/ / BDX, / FJ625AM/AMM / F2A1C1000015
C7318	VCEA0JAW470	E.CAPACITOR 6.3V 47U	NV-FJ620BD/ / BDX, / FJ625AM/AMM / F2A0J4700008
C7319	VCEA1CAW100	E.CAPACITOR 16V 10U	NV-FJ620BD/ / BDX, / FJ625AM/AMM / F2A1C1000015
C7320	VCEA1CAW100	E.CAPACITOR 16V 10U	NV-FJ620BD/ / BDX, / FJ625AM/AMM / F2A1C1000015
C7324	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	NV-FJ620BD/ / BDX, / FJ625AM/AMM
C7325	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	NV-FJ620BD/ / BDX, / FJ625AM/AMM

			F0625AM/AMM

Ref. No.	Part No.	Part Name & Description	Remarks
C7341	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	NV-FJ620BD/ / BDX, / FJ625AM/AMM
C7342	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	NV-FJ620BD/ / BDX, / FJ625AM/AMM
C7343	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	NV-FJ620BD/ / BDX, / FJ625AM/AMM / ECJ1XB1H222K
C7501	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	
C7502	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7503	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7504	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7505	ECEA1VKA100	E.CAPACITOR 35V 10U	F2A1V100A004
C7601	ECEA1HKA010	E.CAPACITOR 50V 1U	
C7602	ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	
C7605	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7606	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	
C7607	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	
C7608	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7616	ECEA0JKA470	E.CAPACITOR 6.3V 47U	
C7617	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7618	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7620	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C7701	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	
C7702	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	
C7703	ECEA0JKA101	E.CAPACITOR 6.3V 100U	
C7704	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7705	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	
C7706	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	ECJ2XC1H471J
C7707	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C7708	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	NV-FJ620AM/ / AMC/EU/AU, / FJ625AM/AMM / ECJ2XC1H471J
C7708	ECUM1H681JCN	C.CAPACITOR CH 50V 680P	NV-FJ620BD/ / BDX / ECJ2XC1H681J
C7709	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	NV-FJ620AM/ / AMC/EU/AU, / FJ625AM/AMM
C7709	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	NV-FJ620BD/ / BDX / ECJ2XB1H152K
C7710	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	F1J1C105A063
C7711	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	
C7712	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	ECJ2XC1H101J
C7713	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	ECJ2XC1H820J
C7714	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	ECJ2XC1H101J
D1110	ERZVA5Z471	TRANSIENT/SURGE ABSORBER	⚠
D1140	DF08S-6622	DIODE	[SUPPLIED / FROM MAV] / B0KB00000013
D1150	AU01Z	DIODE	B0HAGM000006
D1152	MA185	DIODE	MA2C185
D1155	MA165	DIODE	MA2C165
D1157	MA4027-L	DIODE	[SUPPLIED / FROM MAV] / MAZ40270L
D1180	MAZ751000C	DIODE	[SUPPLIED / FROM MAV]
D1230	MA185	DIODE	MA2C185
D1250	B0JAJK000003	DIODE	[SUPPLIED / FROM MAV]
D1251	B0JAJK000003	DIODE	[SUPPLIED / FROM MAV]

[illegible]	[illegible]	DIODE	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
D1260	11EQS04	DIODE	⚠ / B0JAME000020
D1261	11EQS04	DIODE	⚠ / B0JAME000020
D1270	MA185	DIODE	MA2C185
D1280	MA185	DIODE	MA2C185
D1301	MA4075N-M	DIODE	
D1302	MA4056N-H	DIODE	[SUPPLIED / FROM MAV] / MAZ4056NH
D1341	MA4130N-L	DIODE	MAZ4130NL
D1351	MA4056N-H	DIODE	[SUPPLIED / FROM MAV] / MAZ4056NH
D2001	MA165	DIODE	MA2C165
D2002	MA165	DIODE	MA2C165
D3002	RB441P	DIODE	
D4501	MA165	DIODE	MA2C165
D6001	MA165	DIODE	MA2C165
D6002	MA165	DIODE	MA2C165
D6003	MA700A	DIODE	MA2C700A
D6005	MA165	DIODE	MA2C165
D6006	SIR505S	DIODE	B3EA00000040
D6008	MA165	DIODE	MA2C165
D7502	MA4220N	DIODE	
D7602	MA4300N-M	DIODE	MAZ4300NM
DP7501	A2BD00000040	DISPLAY TUBE	[SUPPLIED / FROM MAV]
F1101	VSF0243C16	FUSE	⚠ / K5D162BL0004
FL7301	VLF0633	FILTER	NV-FJ620BD/ / BDX, / FJ625AM/AMM / J0HACK000008
IC1200	UPC1093J	IC	C0DAEMC00002
IC2501	AN3811NK	IC	
IC3001	C1AB00001298	IC	[SUPPLIED / FROM MAV]
IC4501	AN3656NFBPBV	IC	[SUPPLIED / FROM MAV]
IC6001	C2CBHF000199	IC	[SUPPLIED / FROM MAV] / C2CBHF000183
IC6002	RN5VS42CA	IC	
IC6003	PNA4611M08VT	PHOTO DIODE	
IC6004	RPI354N	IC	B3EZ00000001
IC6005	RPI354N	IC	B3EZ00000001
IC7301	TDA9874AH	IC	NV-FJ620BD/ / BDX, / FJ625AM/AMM / C1AB00001404
IC7302	PST7043	IC	NV-FJ620BD/ / BDX, / FJ625AM/AMM / C0EAH0000051
IC7501	M35502AFP	IC	
IP1280	VSF0015A04	IC PROTECTOR	⚠
JK3001	VJJ0680	PIN JACK 3-PIN	K2HA306B0028
JK3002	VJJ0675	PIN JACK 3-PIN	K2HA612B0027
K4001	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	

Ref. No.	Part No.	Part Name & Description	Remarks
K4008	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
K7301	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620BD/ / BDX, / FJ625AM/AMM
K7302	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620BD/ / BDX, / FJ625AM/AMM
K7303	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620BD/ / BDX, / FJ625AM/AMM
K7603	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/EU/AU
K7611	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
K7614	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
L1120	ELF15N003A	LINE FILTER	⚠ / NV-FJ620AM/ / AMC, / FJ625AM/AMM
L1120	ELF15N005A	LINE FILTER	⚠ / NV-FJ620EU/ / AU/BD/ BDX
L1121	ELF15N005A	LINE FILTER	⚠ / NV-FJ620EU/ / AU/BD/ BDX
L1250	G0A220G00018	COIL	[SUPPLIED / FROM MAV] / G0A220G00019
L1260	G0A220G00018	COIL	[SUPPLIED / FROM MAV] / G0A220G00019
L2001	VLQ0599J680	COIL 68UH	G0C680JA0026
L2501	VLQ0599J680	COIL 68UH	G0C680JA0026
L3002	VLQ0599J391	COIL 390UH	[SUPPLIED / FROM MAV] / G0C391JA0026
L3006	VLQ0599J120	COIL 12UH	G0C120JA0026
L3008	VLQ0599J180	COIL 18UH	G0C180JA0026
L3009	VLQ0599J390	COIL 39UH	G0C390JA0026
L3301	VLQ0822J330	COIL 33UH	[SUPPLIED / FROM MAV]
L3302	VLQ0822J680	COIL 68UH	[SUPPLIED / FROM MAV]
L3303	VLQ0822J680	COIL 68UH	[SUPPLIED / FROM MAV]
L4003	VLQEL05T471	PEAKING COIL	[SUPPLIED / FROM MAV]
L4004	VLQEL05T471	PEAKING COIL	[SUPPLIED / FROM MAV]
L4501	VLQ0599J1R2	COIL 1.2UH	G0C1R2JA0026
L5001	VLQ0822J680	COIL 68UH	[SUPPLIED / FROM MAV]
L7302	VLQ0599J1R0	COIL 1UH	NV-FJ620BD/ / BDX, / FJ625AM/AMM / G0C1R0JA0026
L7601	VLQ0822J100	COIL 10UH	[SUPPLIED / FROM MAV]
L7602	VLQ0599J100	COIL 10UH	NV-FJ620BD/ / BDX, / FJ625AM/AMM / G0C1R0JA0026
L7604	VLQ0599J2R2	COIL 2.2UH	NV-FJ620BD/ / BDX, / FJ625AM/AMM / G0C1R0JA0026
L7605	VLQ0822J100	COIL 10UH	[SUPPLIED / FROM MAV]
L7607	ELESE100KA	INDUCTOR 10UH	NV-FJ620EU/ / AU
L7608	VLQ0599J330	COIL 33UH	G0C330JA0026
L7701	VLQ0599J5R6	COIL 5.6UH	G0C5R6JA0026
L7702	VLQ0599J100	COIL 10UH	G0C100JA0026
LB1120	J0JKB0000028	FILTER	[SUPPLIED / FROM MAV] / J0JKB0000027
LB1210	J0JKB0000028	FILTER	[SUPPLIED / FROM MAV] / J0JKB0000027
LB3001	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	

Ref. No.	Part No.	Part Name & Description	Remarks
LB3002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB4001	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
LB4001	VLP0147	COIL	NV-FJ620EU/ / AU / J0JBC0000041
LB4002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
LB4002	VLP0147	COIL	NV-FJ620EU/ / AU / J0JBC0000041
LB4003	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
LB4003	VLP0147	COIL	NV-FJ620EU/ / AU / J0JBC0000041
LB4004	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
LB4004	VLP0147	COIL	NV-FJ620EU/ / AU / J0JBC0000041
LB5040	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB5041	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB5042	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB5043	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB5044	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB5047	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB5048	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB5049	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB6001	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB6002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LB7301	VLP0150	COIL	NV-FJ620BD/ / BDX, / FJ625AM/AMM / J0JCC0000021
LB7303	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620BD/ / BDX, / FJ625AM/AMM
LB7701	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
LR1150	VLP0392	COIL	
P1102	VJP2073	CONNECTOR (MALE) 3P	K1KA02A00104
P2001	VJS3837A002	CONNECTOR (FEMALE) 2P	K1KB02A00035
P2002	VJP3835A012	CONNECTOR (MALE) 12P	
P2501	VJS3537A009G	CONNECTOR (FEMALE) 9P	K1MN09A00012
P4001	VJS3537A006G	CONNECTOR (FEMALE) 6P	K1MN06A00034
P4002	VJS3837A002	CONNECTOR (FEMALE) 2P	K1KB02A00035
P5001	VJS3537A010G	CONNECTOR (FEMALE) 10P	K1MN10A00036
PK7301	VJR0777B007W	CONNECTOR (MALE) 7P	NV-FJ620BD/ / BDX, / FJ625AM/AMM / K1MM07B00002
PK7302	VJR0777B006W	CONNECTOR (MALE) 6P	NV-FJ620BD/ / BDX, / FJ625AM/AMM / K1MM07B00002
Q1150	B1DEDR000003	TRANSISTOR	[SUPPLIED / FROM MAV]
Q1151	2SD1992A-R	TRANSISTOR	
Q1152	2SC3311A-S	TRANSISTOR	2SC3311AS
Q1153	2SK2876	TRANSISTOR	[SUPPLIED / FROM MAV]
Q1200	PC123ZY2	PHOTO COUPLER	⚠ / B3PBA0000078

Ref. No.	Part No.	Part Name & Description	Remarks
Q1341	2SD1996	TRANSISTOR	2SD199606A
Q2001	2SC1959-Y	TRANSISTOR	
Q2002	2SD601A	TRANSISTOR	2SD0601A
Q3004	2SB709A	TRANSISTOR	2SB0709A
Q3005	2SD601A	TRANSISTOR	2SD0601A
Q3007	2SD1328-R	TRANSISTOR	2SD13280R
Q3008	2SC2295	TRANSISTOR	
Q3009	2SB709A	TRANSISTOR	2SB0709A
Q3010	2SC1959-Y	TRANSISTOR	
Q4001	2SD602A-R	TRANSISTOR	2SD0602AR
Q4002	2SB710A	TRANSISTOR	2SB0710A
Q4003	2SD1149	TRANSISTOR	
Q4004	2SD601A	TRANSISTOR	2SD0601A
Q4005	2SD602A-R	TRANSISTOR	2SD0602AR
Q4006	2SB710A	TRANSISTOR	2SB0710A
Q4007	2SC1959-Y	TRANSISTOR	
Q4501	2SC1959-Y	TRANSISTOR	NV-FJ620AM/ / AMC/EU/AU
Q4501	2SD1994A-S	TRANSISTOR	NV-FJ620BD/ / BDX, / FJ625AM/AMM
Q6001	2SD601A	TRANSISTOR	2SD0601A
Q6002	PNB2301MBV	TRANSISTOR	
Q6003	PNB2301MAV	TRANSISTOR	
Q7602	2SD1994A-S	TRANSISTOR	
Q7701	2SB709A	TRANSISTOR	2SB0709A
QR2001	UN2211	TRANSISTOR	UNR2211
QR3003	UN2213	TRANSISTOR-RESISTOR	UNR2213
QR3009	UN2213	TRANSISTOR-RESISTOR	UNR2213
QR3010	UN2213	TRANSISTOR-RESISTOR	UNR2213
QR3011	UN2213	TRANSISTOR-RESISTOR	UNR2213
QR3012	UN2213	TRANSISTOR-RESISTOR	UNR2213
QR3150	UN2213	TRANSISTOR-RESISTOR	UNR2213
QR4001	UN2111	TRANSISTOR	UNR2111
QR4003	UN2211	TRANSISTOR	UNR2211
QR4501	UN2215	TRANSISTOR-RESISTOR	UNR2215
QR4504	UN2115	TRANSISTOR	UNR21150L
QR4505	UN2215	TRANSISTOR-RESISTOR	UNR2215
QR4506	UN2215	TRANSISTOR-RESISTOR	UNR2215
QR4507	UN2215	TRANSISTOR-RESISTOR	UNR2215
QR6002	UN2211	TRANSISTOR	UNR2211
R1150	ERDS2TJ105	M.RESISTOR 1/4W 1M	
R1153	ERG2SJ331	M.RESISTOR 2W 330	
R1154	ERDS2TJ105	M.RESISTOR 1/4W 1M	
R1155	ERDS2TJ104	C.RESISTOR 1/4W 100K	
R1156	ERDS2TJ330	C.RESISTOR 1/4W 33	
R1157	ER0S2CKG1601	M.RESISTOR 1/4W 1.6K	
R1158	ERDS2TJ331	C.RESISTOR 1/4W 330	
R1159	ERDS2TJ3R3	C.RESISTOR 1/4W 3.3	
R1160	ERX1SJR47	M.RESISTOR 0.47	
R1161	ERDS2TJ101	C.RESISTOR 1/4W 100	
R1162	ERDS2TJ102	C.RESISTOR 1/4W 1K	
R1163	ERDS2TJ101	C.RESISTOR 1/4W 100	
R1200	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	

Ref. No.	Part No.	Part Name & Description	Remarks
R1202	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	
R1203	ERJ6GEYG243	M.RESISTOR CH 1/10W 24K	D0GD243GA003
R1204	ERDS2TJ123	C.RESISTOR 1/4W 12K	
R1205	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	
R1206	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	
R1301	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	
R1302	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	
R1303	ERDS2TJ471	C.RESISTOR 1/4W 470	
R1304	ERDS2TJ471	C.RESISTOR 1/4W 470	
R1305	ERDS2TJ471	C.RESISTOR 1/4W 470	
R1341	ERDS2TJ103	C.RESISTOR 1/4W 10K	
R1342	ERDS2TJ103	C.RESISTOR 1/4W 10K	
R1351	ERDS2TJ471	C.RESISTOR 1/4W 470	
R2001	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R2002	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	
R2003	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	
R2004	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	
R2006	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	
R2501	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	
R2504	ERDS2TJ1R5	C.RESISTOR 1/4W 1.5	
R2505	ERDS2TJ1R2	C.RESISTOR 1/4W 1.2	
R2506	ERDS2TJ331	C.RESISTOR 1/4W 330	
R2507	ERDS2TJ330	C.RESISTOR 1/4W 33	
R2508	ERDS2TJ330	C.RESISTOR 1/4W 33	
R2509	ERDS2TJ330	C.RESISTOR 1/4W 33	
R2552	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	
R3001	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	
R3003	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	
R3007	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	
R3008	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	
R3009	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3011	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R3015	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	
R3016	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	
R3017	ERJ6GEYJ680	M.RESISTOR CH 1/10W 68	
R3018	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R3019	ERJ6GEYJ475	M.RESISTOR CH 1/10W 4.7M	
R3021	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R3022	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	
R3024	ERDS2TJ681	C.RESISTOR 1/4W 680	
R3025	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R3028	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R3030	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R3031	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	
R3032	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R3033	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R3034	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	
R3035	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R3037	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	
R3044	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	
R3045	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	
R3046	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R3047	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	
R3048	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	

Ref. No.	Part No.	Part Name & Description	Remarks
R3049	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	
R3050	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	
R3150	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	
R3502	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	
R4001	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/AMC/BD/BDX, / FJ625AM/AMM
R4001	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	NV-FJ620EU/ / AU
R4002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
R4002	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	NV-FJ620EU/ / AU
R4009	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R4011	ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	
R4013	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	
R4014	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R4015	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	
R4018	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
R4018	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	NV-FJ620EU/ / AU
R4019	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/BD/BDX, / FJ625AM/AMM
R4019	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	NV-FJ620EU/ / AU
R4020	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4021	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4034	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	
R4035	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	
R4036	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R4037	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R4038	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	
R4039	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	
R4040	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R4041	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R4042	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	
R4043	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R4044	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	
R4061	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	
R4062	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	
R4063	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	
R4064	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	
R4083	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	
R4500	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R4502	ERJ6GEYJ513	M.RESISTOR CH 1/10W 51K	
R4503	ERJ6GEYJ513	M.RESISTOR CH 1/10W 51K	
R4504	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R4505	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	
R4506	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	
R4508	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R4509	ERJ6GEYJ513	M.RESISTOR CH 1/10W 51K	
R4510	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	
R4511	ERJ6GEYJ513	M.RESISTOR CH 1/10W 51K	
R4512	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	
R4513	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/EU/AU
R4514	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	NV-FJ620AM/ / AMC/EU/AU
R4515	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	NV-FJ620AM/ / AMC/EU/AU
R4515	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	NV-FJ620BD/ / BDX, / FJ625AM/AMM

Ref. No.	Part No.	Part Name & Description	Remarks
R4516	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	NV-FJ620AM/ / AMC/EU/AU
R4516	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R4520	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R4523	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	NV-FJ620AM/ / AMC/EU/AU
R4523	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R4524	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	NV-FJ620AM/ / AMC/EU/AU
R4524	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R4526	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	
R4530	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R4531	ERJ6GEYJ511	M.RESISTOR CH 1/10W 510	
R4532	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	
R4533	ERJ6GEYJ511	M.RESISTOR CH 1/10W 510	
R4534	ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	
R4538	ERJ6GEYJ303	M.RESISTOR CH 1/10W 30K	
R4539	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	
R4540	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	
R4581	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4582	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	
R4601	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	
R4602	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	
R6001	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R6002	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R6003	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	
R6004	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R6005	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R6006	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	
R6007	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R6008	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R6009	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	
R6010	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	
R6011	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	
R6013	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	
R6014	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	
R6016	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R6017	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R6018	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	
R6019	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	NV-FJ620AM/ / AMC/EU/AU/ / BD/BDX
R6019	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	NV-FJ625AM/ / AMM
R6020	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	NV-FJ620AM/ / AMC/EU/AU/ / BD/BDX
R6020	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	NV-FJ625AM/ / AMM
R6021	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	NV-FJ620AM/ / AMC, / FJ625AM/AMM
R6021	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	NV-FJ620EU
R6021	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	NV-FJ620AU
R6021	ERJ6GEYJ203	M.RESISTOR CH 1/10W 20K	NV-FJ620BD/ / BDX
R6022	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	NV-FJ620AM/ / AMC, / FJ625AM/AMM
R6022	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	NV-FJ620EU
R6022	ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	NV-FJ620AU
R6022	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	NV-FJ620BD/ / BDX

Ref. No.	Part No.	Part Name & Description	Remarks
R6023	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	
R6029	ERDS2TJ121	C.RESISTOR 1/4W 120	
R6030	ERDS2TJ181	C.RESISTOR 1/4W 180	
R6031	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R6032	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R6033	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	
R6034	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	
R6102	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	
R6105	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	
R7302	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7305	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7306	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7316	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7324	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7325	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7327	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7328	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7329	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7501	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	
R7502	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	
R7503	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	
R7504	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7505	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	
R7506	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	
R7507	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	
R7508	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	
R7510	ERDS2TJ821	C.RESISTOR 1/4W 820	
R7512	ERDS2TJ150	C.RESISTOR 1/4W 15	
R7514	ERJ6GEYJ362	M.RESISTOR CH 1/10W 3.6K	
R7515	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	
R7516	ERJ6GEYJ512	M.RESISTOR CH 1/10W 5.1K	
R7517	ERJ6GEYJ362	M.RESISTOR CH 1/10W 3.6K	
R7518	ERJ6GEYJ912	M.RESISTOR CH 1/10W 9.1K	
R7519	ERJ6GEYJ512	M.RESISTOR CH 1/10W 5.1K	
R7520	ERJ6GEYJ912	M.RESISTOR CH 1/10W 9.1K	
R7521	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	
R7522	ERJ6GEYJ203	M.RESISTOR CH 1/10W 20K	
R7601	ERDS2TJ331	C.RESISTOR 1/4W 330	
R7602	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7603	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	NV-FJ620BD/ / BDX, / FJ625AM/AMM
R7607	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7608	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7610	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R7611	ERDS2TJ331	C.RESISTOR 1/4W 330	
R7701	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	

Ref. No.	Part No.	Part Name & Description	Remarks
R7702	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R7703	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R7706	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	
R7707	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	
R7708	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	
R7712	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	
S2001	K0G934A00002	SWITCH	K0ZZ00000452
S6001	K0C111A00003	SWITCH	[SUPPLIED / FROM MAV]
S7501	EVQ11G07K	SWITCH	
S7502	EVQ11L07B	SWITCH	
S7504	EVQ11G07K	SWITCH	
S7505	EVQ11G07K	SWITCH	
S7506	EVQ11L07B	SWITCH	
S7507	EVQ11G07K	SWITCH	
S7508	EVQ11404M	SWITCH	
S7509	EVQ11404M	SWITCH	
S7510	EVQ11L07B	SWITCH	
S7511	EVQ11G07K	SWITCH	
S7512	EVQ11G07K	SWITCH	
S7513	EVQ11L07B	SWITCH	
S7514	EVQ11L07B	SWITCH	
S7515	EVQPC005B	SWITCH	[SUPPLIED / FROM MAV]
T1150	G4D2A0000052	SWITCHING TRANSFORMER	⚠ / [SUPPLIED / FROM MAV]
T4001	VLT0923	TRANSFORMER	G2A611C00001
T4002	VLT0924	TRANSFORMER	G2A232C00001
TU7601	ENG57812G1	TUNER	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620AM/ / AMC, / FJ625AM/AMM
TU7601	ENG57811G1	TUNER	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620EU/ / AU
TU7601	ENG57909G1	TUNER	⚠ / [SUPPLIED / FROM MAV] / NV-FJ620BD/ / BDX
X3001	VSX0803	CRYSTAL OSCILLATOR	
X3002	H0D443400021	CRYSTAL OSCILLATOR	[SUPPLIED / FROM MAV] / H0D443400020
X6001	H0A120500002	CRYSTAL OSCILLATOR	[SUPPLIED / FROM MAV]
X6002	VSX1022	CRYSTAL OSCILLATOR	
X7302	VSX0953	CRYSTAL OSCILLATOR	NV-FJ620BD/ / BDX, / FJ625AM/AMM / H0D245500006
		MISCELLANEOUS	
	EYF52BC	FUSE HOLDER	K3GD9BB00001
	EYF52BC	FUSE HOLDER	K3GD9BB00001
	VSC4998	HA ANGLE	
	VSC4752	SHIELD CASE (MAIN)	FOR NICAM / DECODER / C.B.A. / NV-FJ620BD/ / BDX, / FJ625AM/AMM

Ref. No.	Part No.	Part Name & Description	Remarks
■	------------	CYLINDER STATOR C.B.A.	
		MISCELLANEOUS	
	VJS3537B009G	CONNECTOR (FEMALE) 9P	K1MN09B00023
	HW-300A-DF	HALL IC	B4AAB0000007

12. Schematic Diagram For Printing With A4 Size

MAIN C.B.A.

Transistor	
Q1150	B-2
Q1151	C-2
Q1152	C-2
Q1153	B-2
Q1200	B-2
Q1341	B-5
Q2001	B-3
Q2002	A-3
Q3004	D-6
Q3005	C-4
Q3008	C-5
Q3009	C-4
Q3010	B-5
Q4001	B-6
Q4002	B-6
Q4003	D-4
Q4004	D-5
Q4005	B-6
Q4006	B-6
Q4007	B-5
Q4501	B-5
Q6001	A-2
Q6002	B-3
Q6003	B-6
Q7602	A-3
Q7701	B-4

Integrated Circuit	
IC1200	A-2
IC2501	D-3
IC3001	C-4
IC4501	C-5
IC6001	B-4
IC6002	C-3
IC6003	A-5
IC6004	B-5
IC6005	B-4
IC7501	A-4

Test Land	
TL2015	B-3
TL4507	D-5
TL4552	C-5
TL6001	B-4
TL6010	B-3
TL6012	B-3
TL6013	A-4
TL7509	B-3
TL7510	B-4
PGND	D-2

Transistor & Resistor	
QR2001	C-3
QR3003	C-4
QR3007	C-4
QR3009	C-4
QR3010	C-4
QR3011	C-4
QR3012	C-4
QR3150	C-4
QR4001	B-6
QR4003	D-5
QR4501	C-6
QR4504	C-6
QR4505	C-6
QR4506	C-6
QR4507	D-6
QR6002	B-5

Test Wire	
TW1004	B-6
TW2001	D-4
TW2002	D-4
TW3001	D-5
TW4501	D-5
TW4502	D-5
TW6001	B-3
TW6002	A-4
TW6003	A-4
TW6004	C-3
TW6090	B-3

Connector	
P1102	D-2
P2001	D-3
P2002	B-3
P2501	D 3
P4001	D-4
P4002	C-6
P5001	D-5
TU7601	D-6

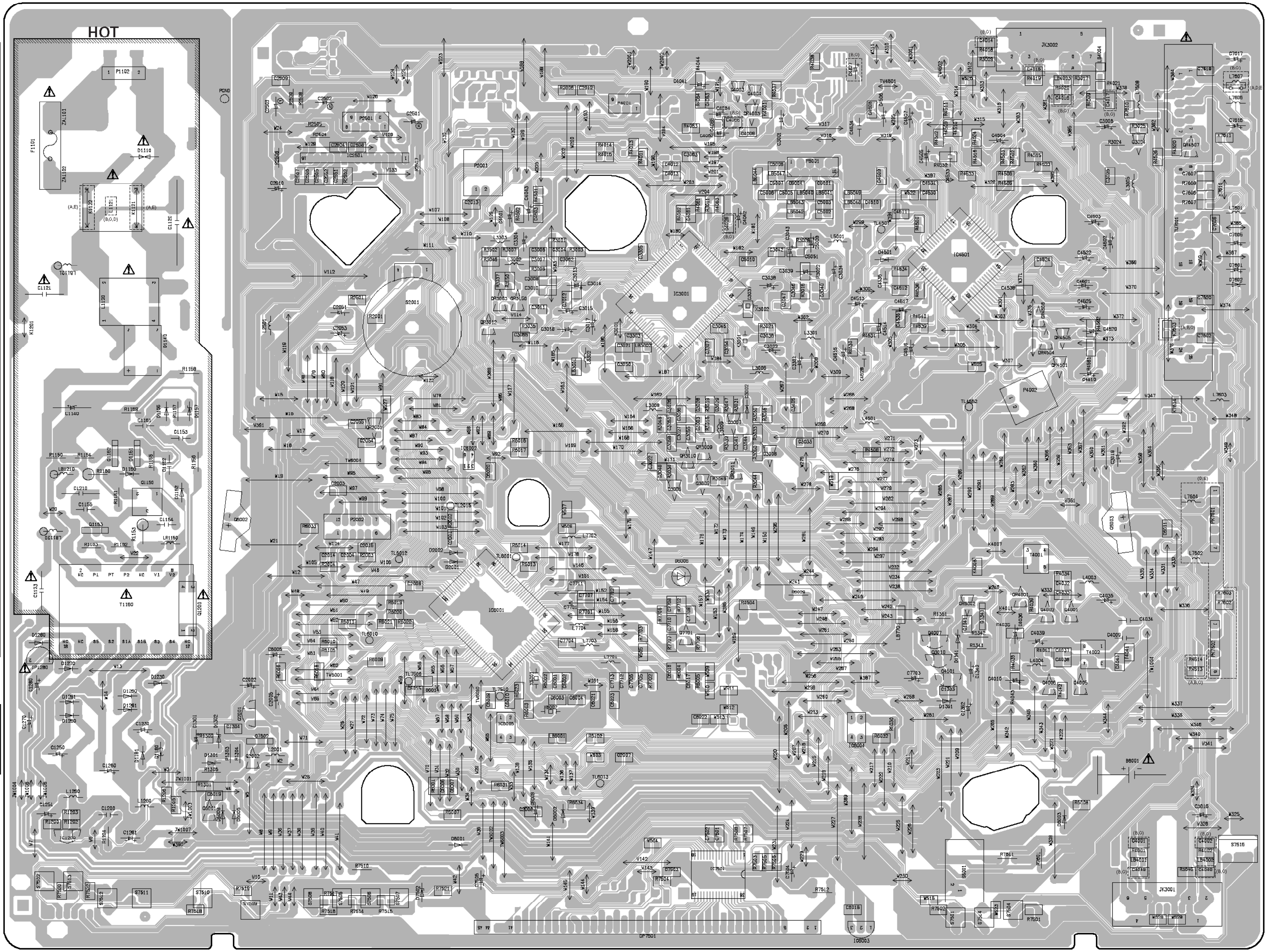
ADORESS INFORMATION

CAUTION

THE [hatched] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

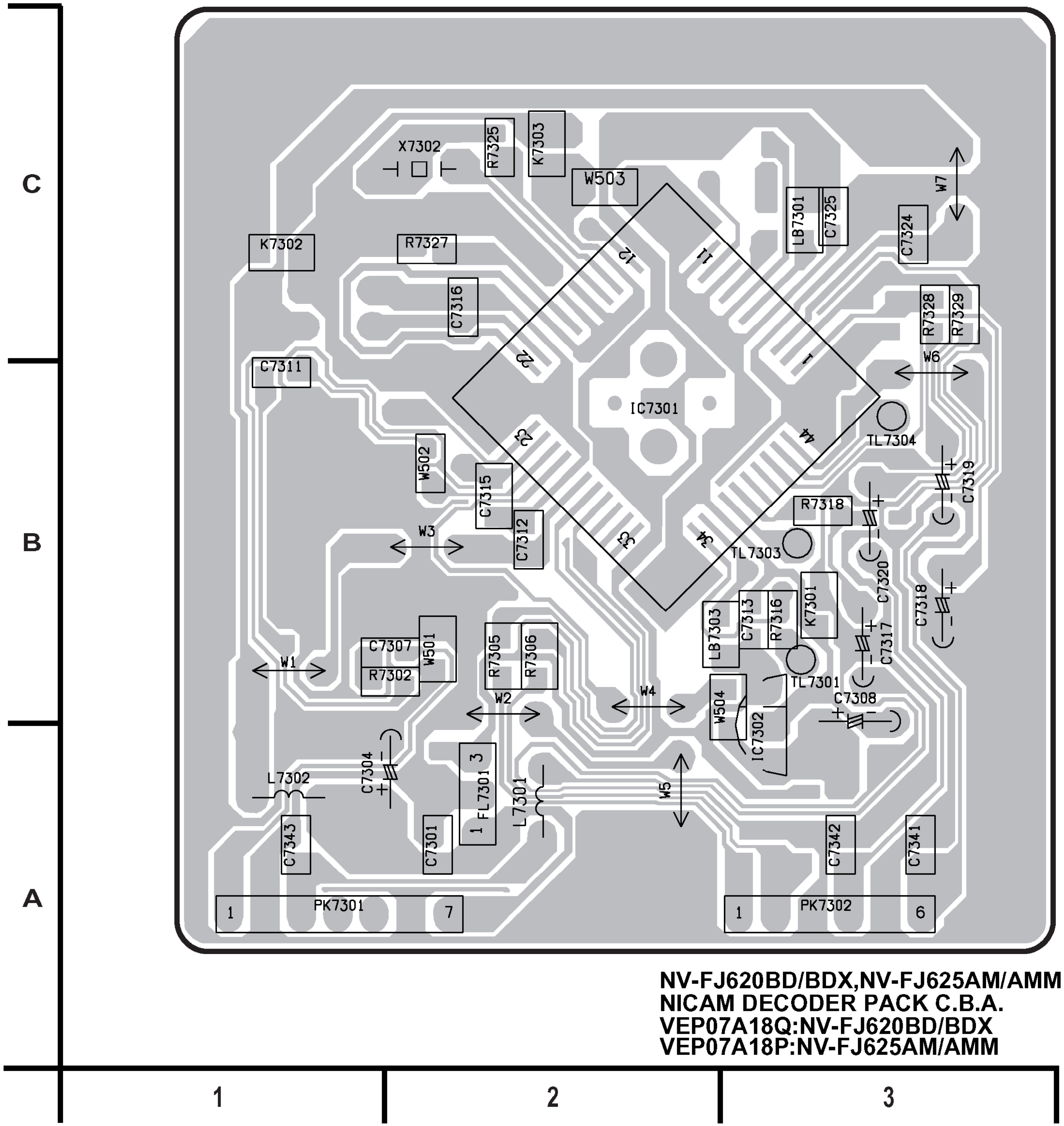
(A) : NV-FJ620AM/AMC
(B) : NV-FJ620EU
(C) : NV-FJ620AU
(D) : NV-FJ620BD/BDX
(E) : NV-FJ625AM/AMM

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM MAIN C.B.A.
VEP06E21M:NV-FJ620AM/AMC, VEP06E21N:NV-FJ620EU, VEP06E21P:NV-FJ620AU, VEP06E21Q:NV-FJ620BD/BDX, VEP06E21S:NV-FJ625AM/AMM

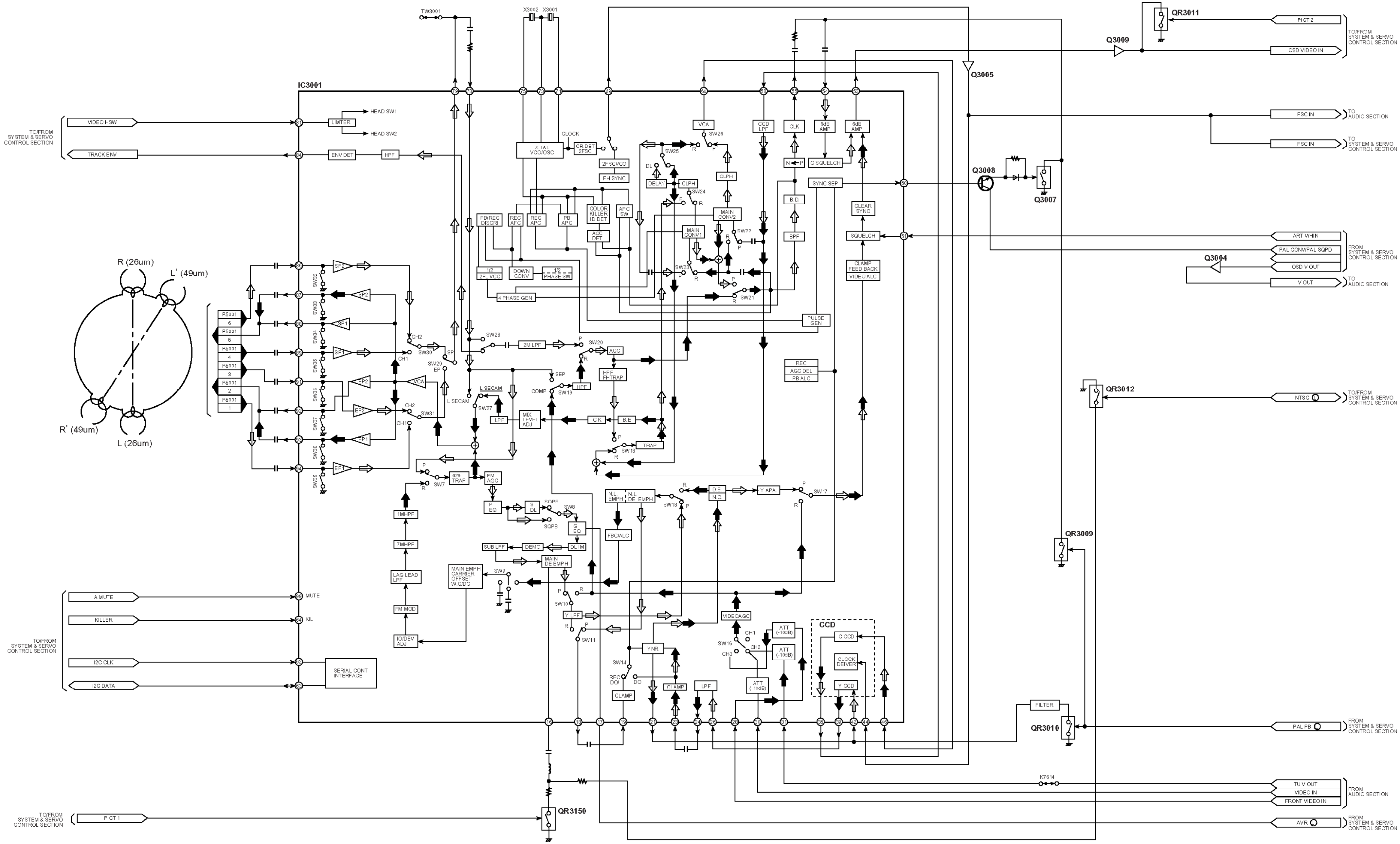
D C B A
1 2 3 4 5 6



NV-FJ620BD/BDX,NV-FJ625AM/AMM
NICAM DECODER PACK C.B.A.
VEP07A18Q:NV-FJ620BD/BDX
VEP07A18P:NV-FJ625AM/AMM

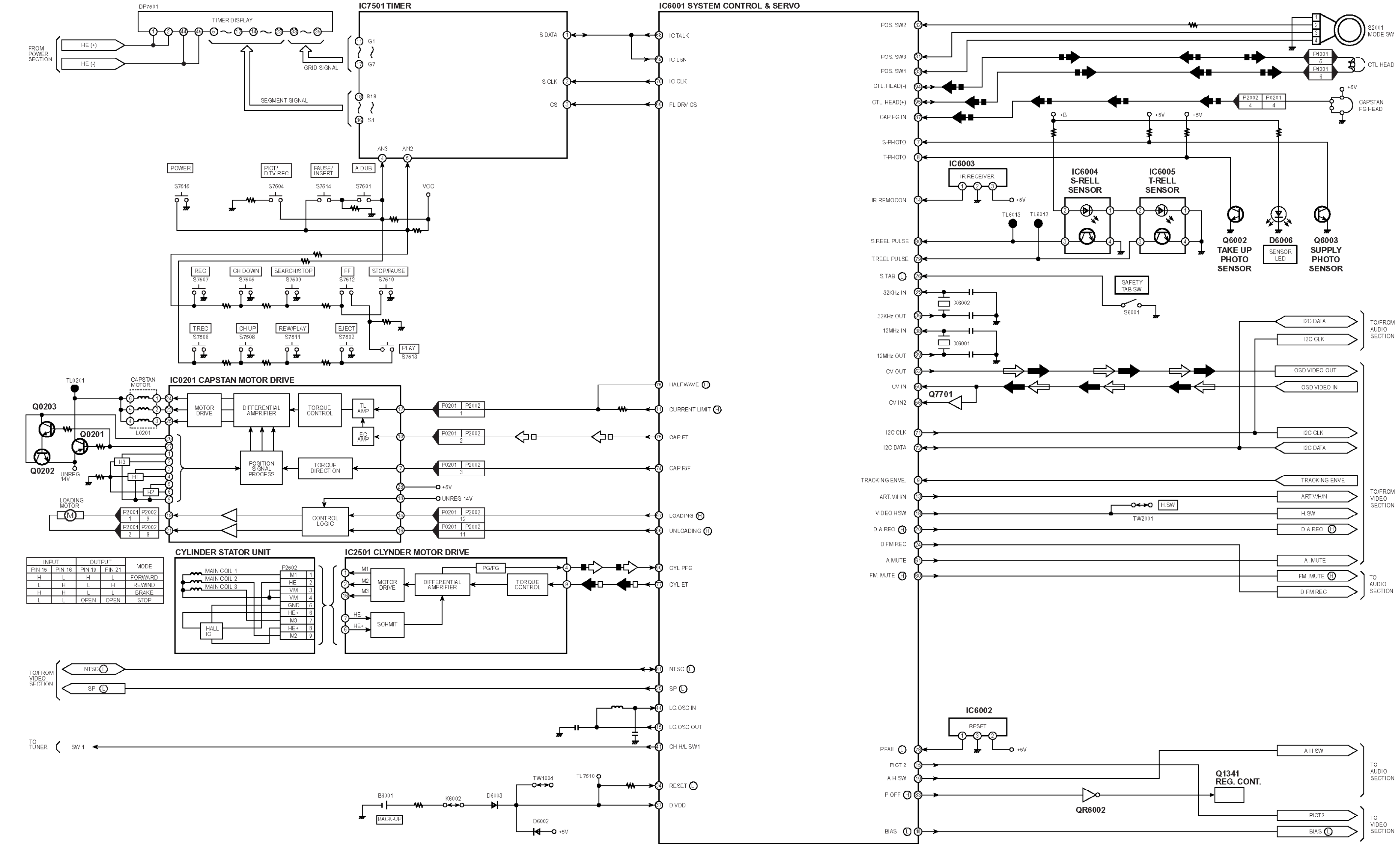
:VIDEO MAIN SIGNAL PATH IN REC MODE

:VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE



NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM VIDEO SECTION BLOCK DIAGRAM

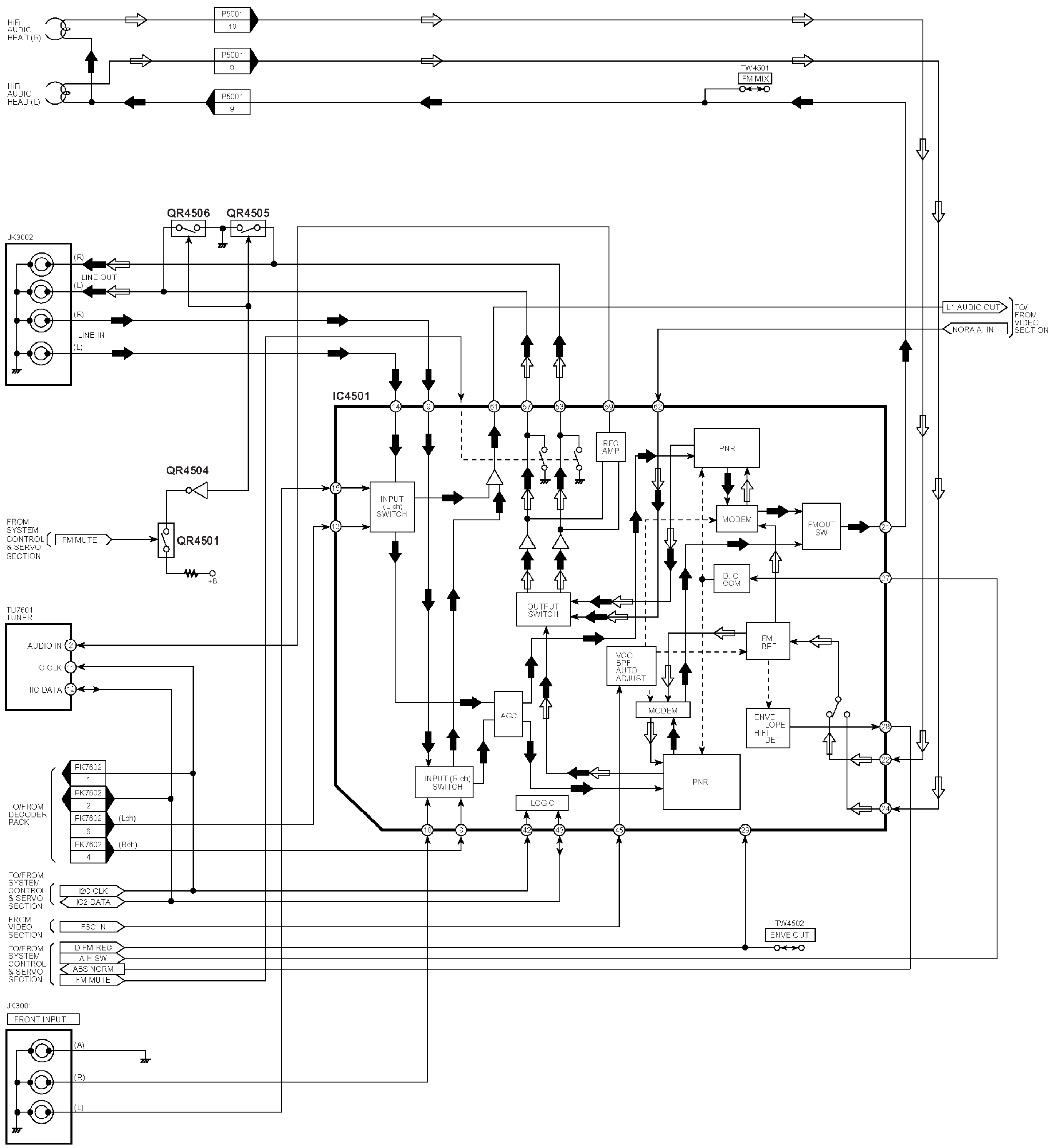
:MAIN SIGNAL PATH IN REC MODE :MAIN SIGNAL PATH IN PLAYBACK MODE :CAPSTAIN SERVO PHASE LOOP :CAPSTAIN SERVO SPEED LOOP :CYLINDER SERVO PHASE LOOP :CYLINDER SERVO SPEED LOOP



INPUT		OUTPUT		MODE
PIN 15	PIN 16	PIN 19	PIN 21	
H	L	H	L	FORWARD
L	H	L	H	REWIND
H	H	L	L	BRAKE
L	L	OPEN	OPEN	STOP

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
SYSTEM CONTROL & SERVO/TIMER SECTION BLOCK DIAGRAM

:AUDIO MAIN SIGNAL PATH IN REC MODE :AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

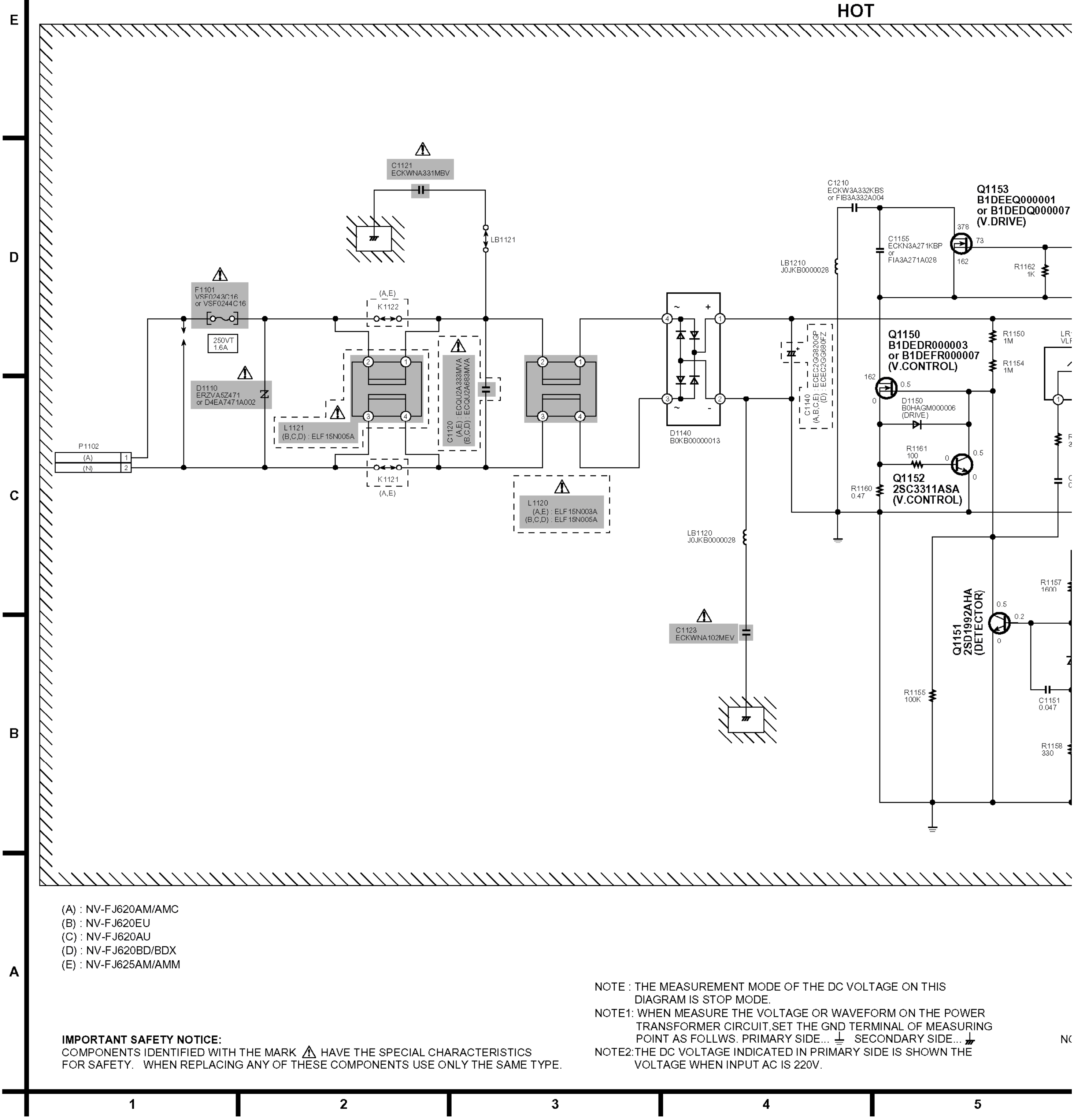


NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM FM AUDIO SECTION BLOCK DIAGRAM

CAUTION

THE [hatched box] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

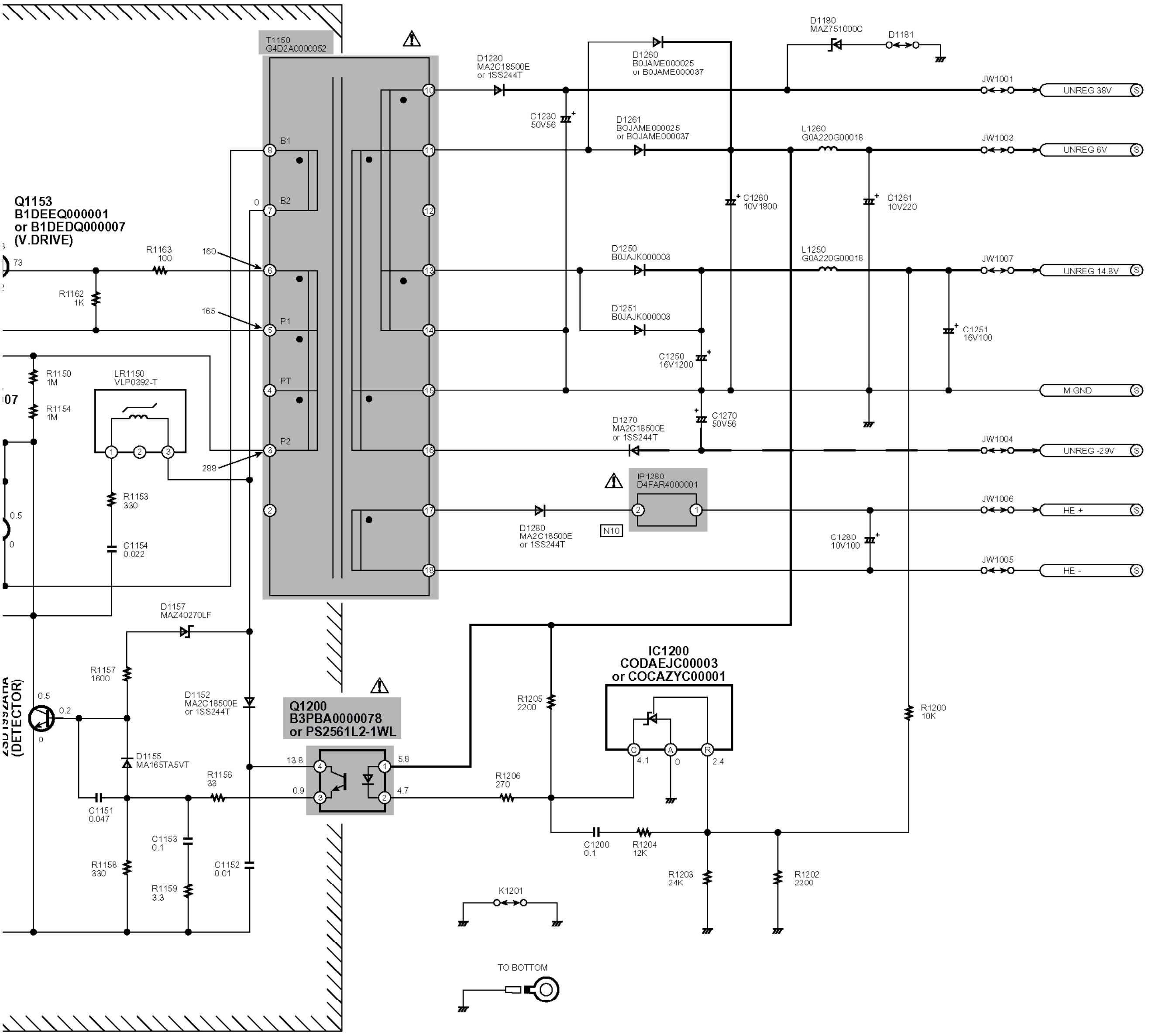
Ⓢ : TO SYSTEM CONTROL & SERVO / TIMER SECTION



(A) : NV-FJ620AM/AMC
(B) : NV-FJ620EU
(C) : NV-FJ620AU
(D) : NV-FJ620BD/BDX
(E) : NV-FJ625AM/AMM

NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.
NOTE1: WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT,SET THE GND TERMINAL OF MEASURING POINT AS FOLLWS. PRIMARY SIDE... ⏚ SECONDARY SIDE... ⏚
NOTE2:THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.



ER
RING
E

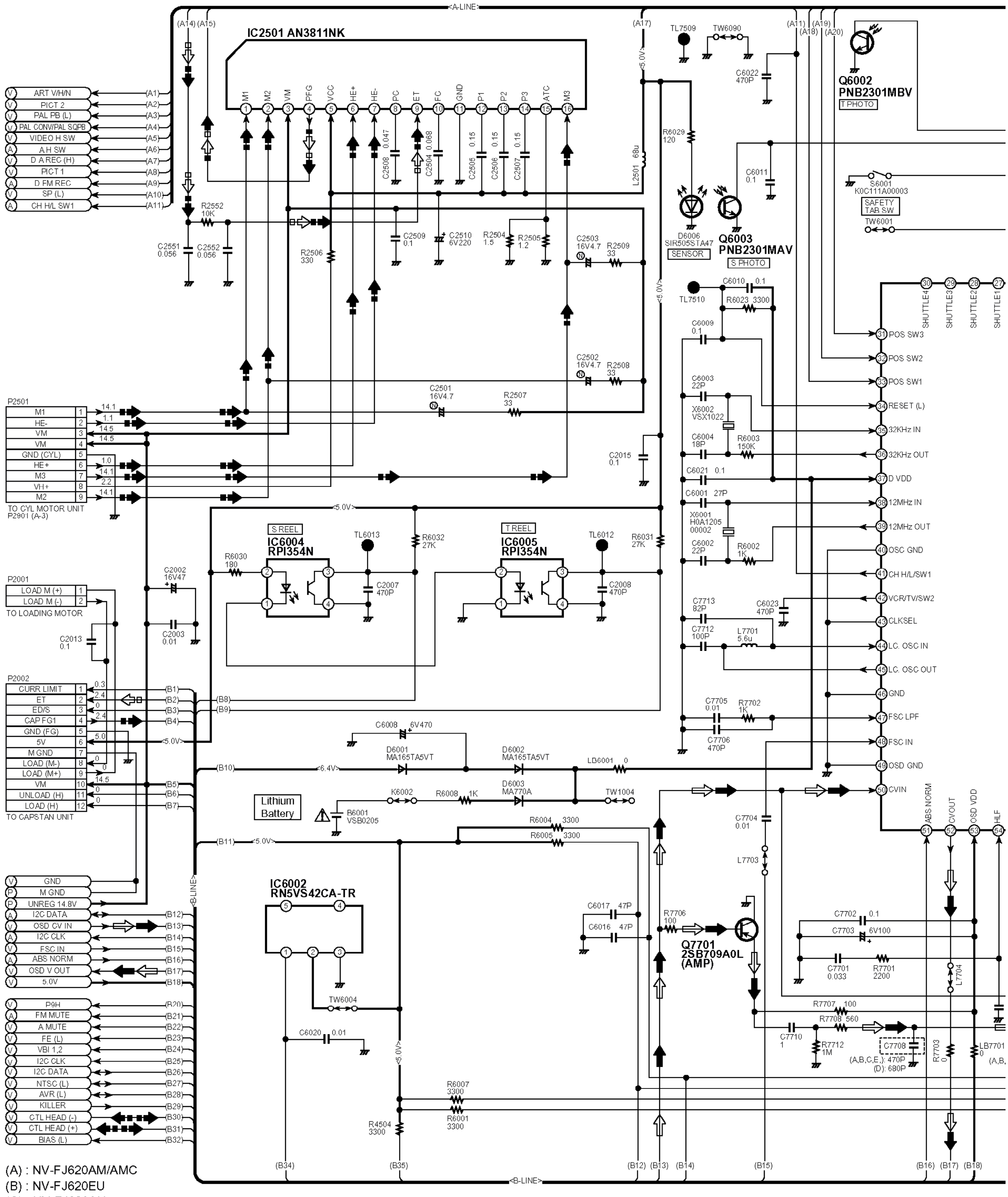
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
POWER SECTION IN MAIN SCHEMATIC DIAGRAM

5 6 7 8 9

(A) : TO AUDIO SECTION
(V) : TO VIDEO SECTION
(P) : TO POWER SECTION

⬅ :VIDEO MAIN SIG
⇦ :VIDEO MAIN SIG



(A) : NV-FJ620AM/AMC
(B) : NV-FJ620EU
(C) : NV-FJ620AU
(D) : NV-FJ620BD/BDX
(E) : NV-FJ625AM/AMM

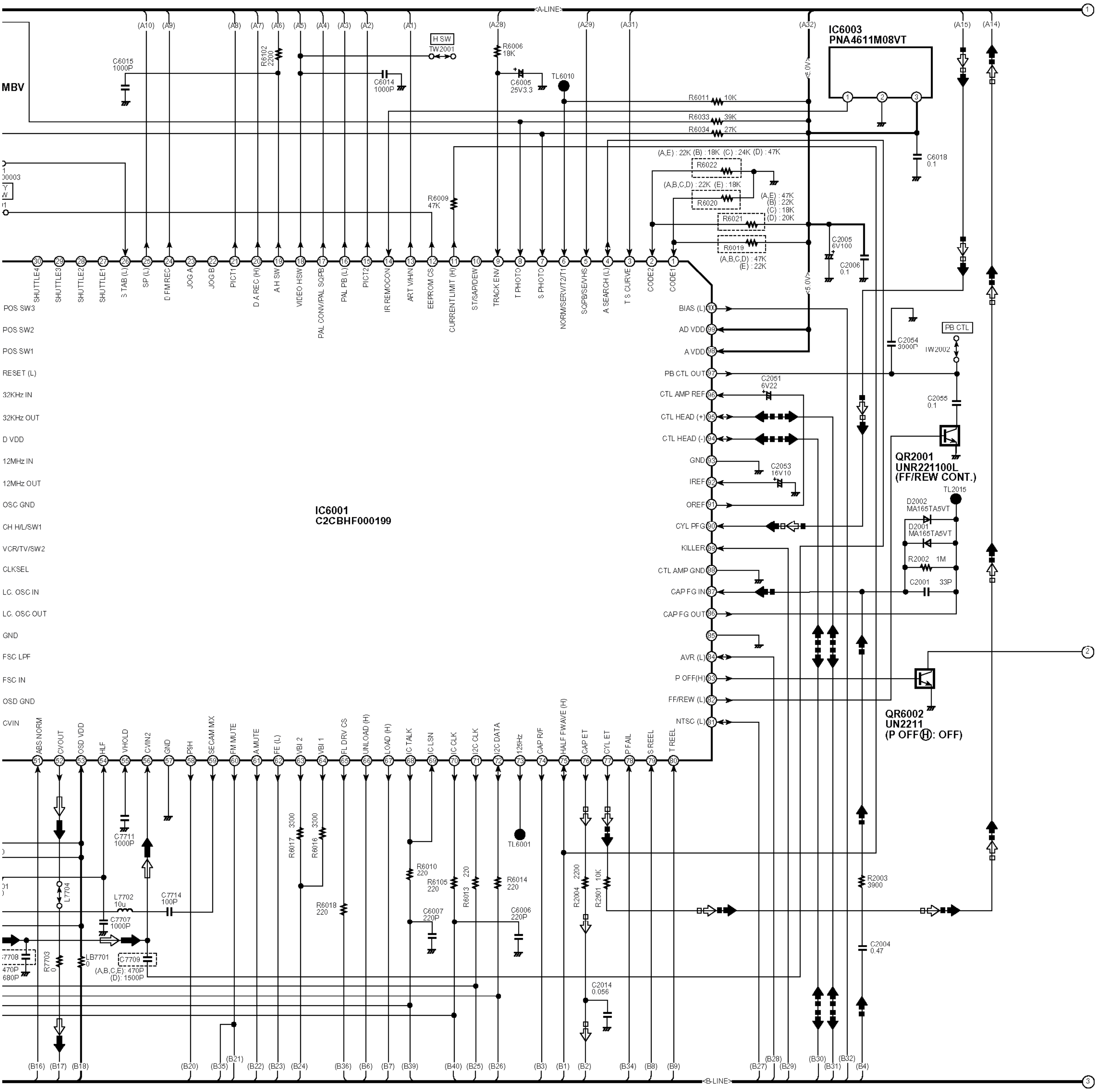
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICSFOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

NOTE : DO NOT
DIAGRA
WHEN Y

E D C B A

1 2 3 4 5

:O MAIN SIGNAL PATH IN PLAYBACK MODE :CAPSTAN SERVO PHASE LOOP :CYLINDER SERVO SPEED LOOP
:O MAIN SIGNAL PATH IN REC MODE :CAPSTAN SERVO SPEED LOOP :CYLINDER SERVO PHASE LOOP

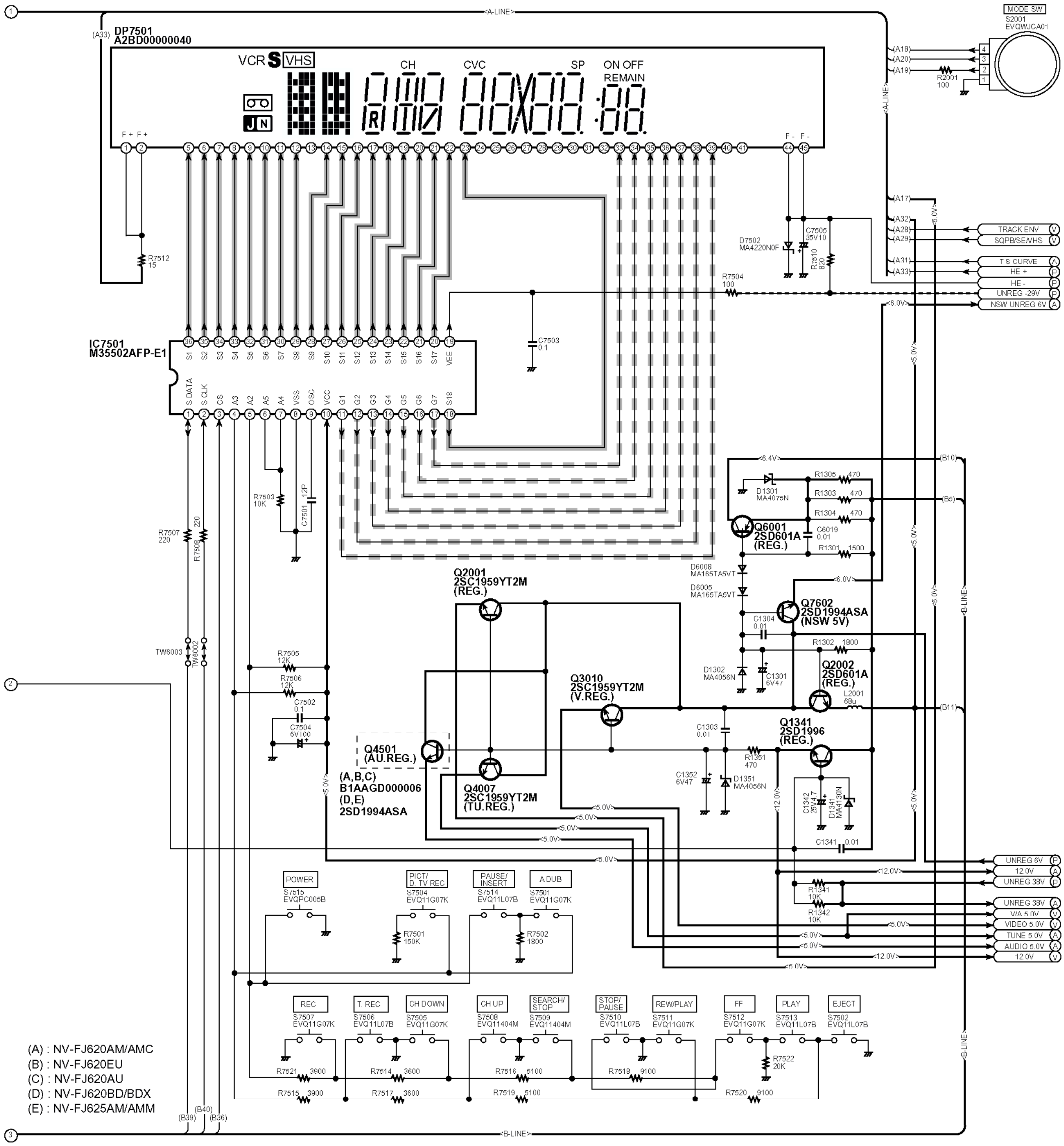


NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
SYSTEM CONTROL & SERVO / TIMER IN MAIN SCHEMATIC DIAGRAM

5	6	7	8	9

GRID CONTROL SIGNAL PATH
SEGMENT CONTROL SIGNAL PATH



(A) : NV-FJ620AM/AMC
(B) : NV-FJ620EU
(C) : NV-FJ620AU
(D) : NV-FJ620BD/BDX
(E) : NV-FJ625AM/AMM

10	11	12	13

SYSTEM CONTROL & SERVO ICs VOLTAGE CHART (SP MODE)

Ref.No.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	14.4	14.4	14.7	1.1	5.0	1.0	1.0	0.5	2.3	1.3	0	3.8	3.8	3.9	0	14.4				
PLAY	14.3	14.3	14.6	1.1	5.0	1.0	1.0	0.4	2.3	1.3	0	3.8	3.8	3.8	0	14.3				
REC	14.3	14.3	14.6	0.8	5.0	1.0	1.0	0.4	2.3	1.3	0	3.8	3.8	3.8	0	14.3				
F.F	14.1	14.1	14.5	0.8	5.0	1.0	1.1	0.4	2.4	1.3	0	3.8	3.8	36.8	0	14.2				
REW	14.1	14.1	14.5	1.1	5.0	1.0	1.1	0.5	2.3	1.3	0	3.8	3.8	3.8	0	14.0				
Ref.No.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.8	0	2.4	0	0	4.9	4.8	4.7	1.0	0	0	4.9	0	4.9	4.8	0	4.8	-	0	0
PLAY	0.8	0	2.3	0.3	0	4.9	4.7	4.7	1.6	0	4.6	4.9	0	4.9	4.8	0	4.8	-	-	0
REC	0.8	0	2.3	0.3	0	4.9	4.8	4.6	0	0	4.6	4.8	0	4.9	4.8	0	4.8	-	0	4.7
F.F	0.8	0	2.3	0.3	0	4.9	4.7	4.5	0.8	0	4.8	4.9	0	4.9	4.7	0	4.8	-	0	0
REW	0.8	0	2.3	0.4	0	4.9	4.6	4.5	3.5	0	4.8	4.9	0	4.9	4.8	0	4.8	-	0	0
Ref.No.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	4.8	0	0	0	0	0	4.8	0	0	0	1.5	1.5	4.8	-	-	0
PLAY	0	0	0	0	0	0	0	0	0	0	4.8	0	0	4.8	1.5	1.5	4.8	-	-	0
REC	0	0	0	4.7	4.8	0	0	0	0	0	4.8	0	0	4.8	1.5	1.5	4.8	-	-	0
F.F	0	0	0	0	0	0	0	0	0	0	4.8	4.8	0	4.8	1.5	1.5	4.8	-	-	0
REW	0	0	0	0	4.8	0	0	0	0	0	4.8	4.9	0	4.9	1.6	1.6	4.9	-	-	0
Ref.No.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	4.8	0	0	4.4	4.4	0	1.3	2.1	0	2.2	4.2	2.2	5.0	2.1	1.5	1.9	0	0	0	0
PLAY	4.8	4.8	0	4.6	4.6	0	1.3	2.0	0	2.2	4.2	2.2	5.0	2.1	1.5	1.9	0	0	0	0
REC	4.8	4.8	0	0	0	0	1.3	2.0	0	2.2	4.2	2.2	5.0	2.1	1.5	1.9	0	0	0	0
F.F	4.9	0	0	2.9	2.9	0	1.3	2.1	0	2.2	4.2	2.2	5.0	2.0	1.5	1.9	0	0	0	0
REW	4.8	0	0	2.9	2.9	0	1.3	2.1	0	2.2	4.2	2.2	5.0	2.0	1.4	1.9	0	0	0	0
Ref.No.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	0	0	2.5	0	0	3.5	3.5	3.7	3.7	3.5	2.4	0	0	0	2.3	4.9	0.1	5.0
PLAY	0	0	0	0	2.7	0	0	3.4	3.4	3.7	3.7	3.5	2.4	0	0.3	2.4	2.3	4.9	5.0	5.0
REC	0	0	0	0	2.5	0	0	4.1	3.6	3.7	3.6	3.5	2.4	0	0.3	2.4	2.3	4.9	5.0	5.0
F.F	0	0	0	0	3.7	0	0	4.1	3.9	4.0	3.7	3.6	2.5	0	4.5	4.8	2.3	5.0	2.3	2.3
REW	0	0	0	0	3.7	0	0	3.7	3.7	3.8	3.6	2.5	4.8	4.5	4.8	2.3	5.0	2.2	2.7	5.0
Ref.No.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	0	0	0	4.1	0	2.4	2.4	0	0	1.1	2.4	2.4	0	2.4	2.4	2.4	2.4	4.9	4.9	4.8
PLAY	0	0	0	4.1	0	2.4	2.4	0	0	1.1	2.4	2.4	0	2.4	2.4	2.4	2.3	4.9	4.9	4.8
REC	0	0	0	4.1	0	2.4	2.4	0	0	0.8	2.4	2.4	0	2.9	2.1	2.4	2.4	4.9	4.9	0
F.F	0	0	0	4.2	0	2.5	2.5	0	0	1.1	2.5	2.5	0	2.4	2.4	2.4	2.4	5.0	5.0	4.9
REW	0	0	0	4.2	0	2.5	2.5	0	0	0.8	2.5	2.5	0	2.4	2.4	2.4	2.5	5.0	5.0	4.9
Ref.No.	IC6002					IC6003					IC6004					IC6005				
MODE	1	2	3	4	5	1	2	3			1	2	3	4		1	2	3	4	
STOP	4.9	4.9	0	0	0	4.9	0	4.9			1.1	2.2	5.0	0		0	1.1	5.0	0	
PLAY	4.9	4.9	0	0	0	4.9	0	4.9			1.1	2.2	5.0	0		0	1.1	5.0	0	
REC	4.9	4.9	0	0	0	4.9	0	4.9			1.1	2.2	5.0	0		0	1.1	5.0	0	
F.F	5.0	5.0	0	0	0	4.9	0	4.9			1.1	2.2	2.2	0		0	1.1	2.2	0	
REW	5.0	5.0	0	0	0	4.9	0	4.9			1.1	2.2	2.3	0		0	1.1	2.3	0	
Ref.No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.6	3.8	2.5	4.9	4.9	0	0	0	2.3	4.9	-24.7	-25.0	-25.1	-25.0	-24.9	-24.9	-24.9	-18.5	-29.8	-29.6
PLAY																				
REC																				
F.F																				
REW																				
Ref.No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
STOP	-18.5	-20.0	-14.0	-14.0	-19.0	-14.5	-14.6	-14.0	-18.6	-15.0	-15.0	-15.5	-24.4	-20.0	-10.5	-15.0				
PLAY																				
REC																				
F.F																				
REW																				

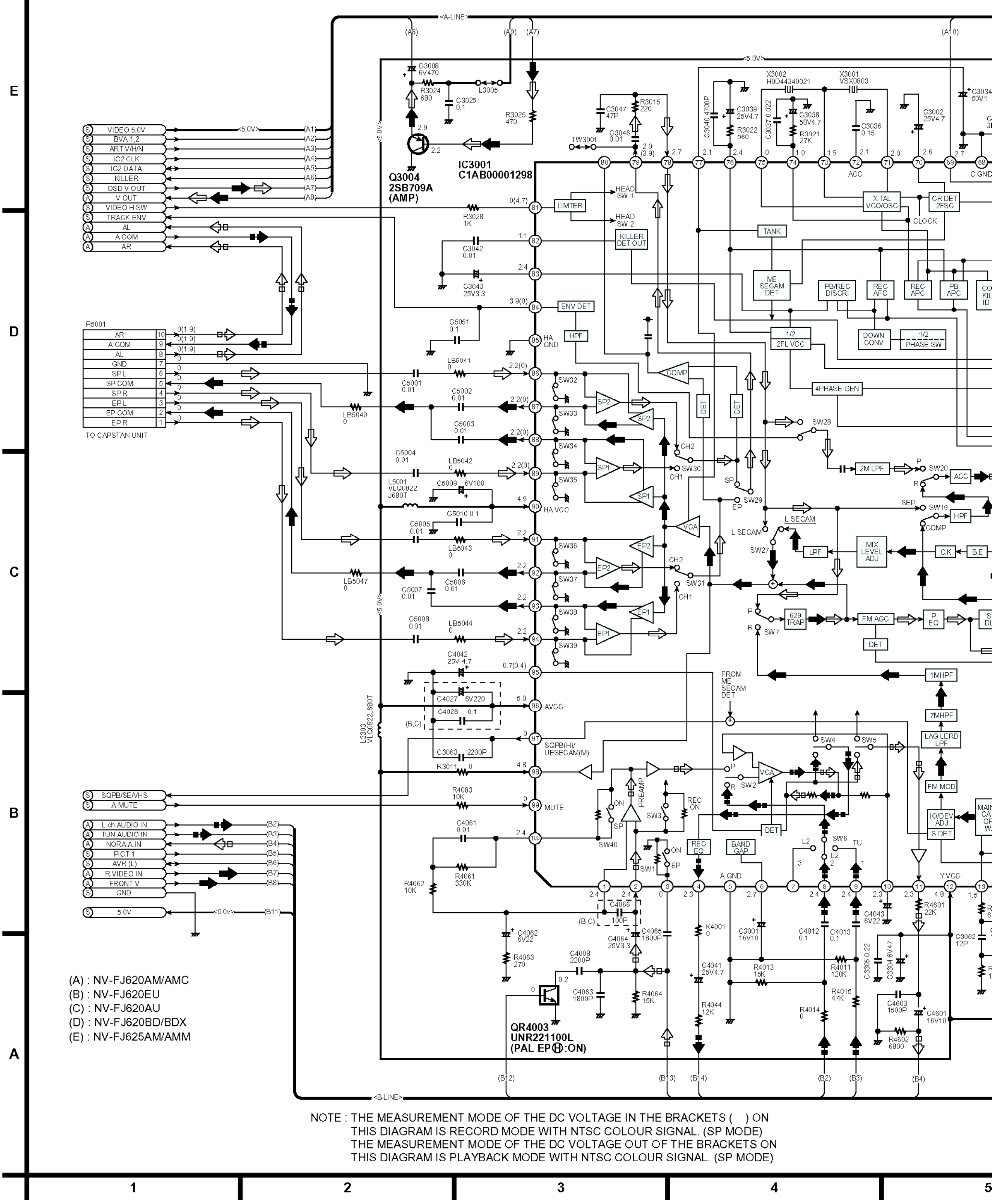
SYSTEM CONTROL & SERVO TRANSISTORs VOLTAGE CHART (SP MODE)

Ref.No.	Q1341			Q2001			Q2002			Q3010			Q4007			Q4501		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.2	14.7	12.9	5.0	5.7	5.7	5.0	5.7	5.7	5.0	5.6	5.7	5.0	5.6	5.7	5.0	5.6	5.7
PLAY	12.3	14.7	12.9	5.0	5.9	5.8	5.0	5.9	5.7	5.0	5.8	5.8	5.0	5.8	5.7	5.0	5.8	5.8
REC	12.3	14.7	12.9	5.0	5.8	5.8	5.0	5.8	5.7	5.0	5.7	5.7	5.0	5.7	5.7	5.0	5.7	5.8
F.F	12.5	14.5	13.2	5.0	6.1	5.7	5.1	6.1	5.8	5.0	6.0	5.7	5.0	6.0	5.7	5.0	6.0	5.7
REW	12.5	14.5	13.2	5.0	6.0	5.7	5.1	6.1	5.8	5.0	6.0	5.7	5.0	6.0	5.7	5.0	5.9	5.7
Ref.No.	Q6001			Q6002			Q6003			Q7602			Q7701					
MODE	E	C	B	-	+		-	+		E	C	B	E	C	B			
STOP	6.4	7.7	7.0	0	4.7		0	4.8		5.0	5.9	5.7	2.0	0	1.4			
PLAY	6.4	7.7	7.0	0	4.7		0	4.8		5.0	6.1	5.7	2.7	0	2.1			
REC	6.4	7.7	7.0	0	4.7		0	4.8		5.0	6.0	5.7	2.0	0	1.5			
F.F	6.4	7.6	7.1	0	4.7		0	4.8		5.0	6.3	5.7	2.0	0	1.5			
REW	6.4	7.6	7.1	0	4.7		0	4.8		5.0	5.9	5.7	2.0	0	1.4			
Ref.No.	QR2001			QR6002														
MODE	E	C	B	E	C	B												
STOP	0	0	4.8	0	12.9	0												
PLAY	0	0	4.8	0	12.9	0												
REC	0	0	4.8	0	12.9	0												
F.F	0	1.6	0	0	13.2	0												
REW	0	1.6	0	0	13.2	0												

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
SYSTEM CONTROL & SERVO/TIMER IN MAIN SCHEMATIC DIAGRAM

Ⓐ TO:AUDIO SECTION
Ⓢ TO:SYSTEM CONTROL & SERVO / TIMER SECTION

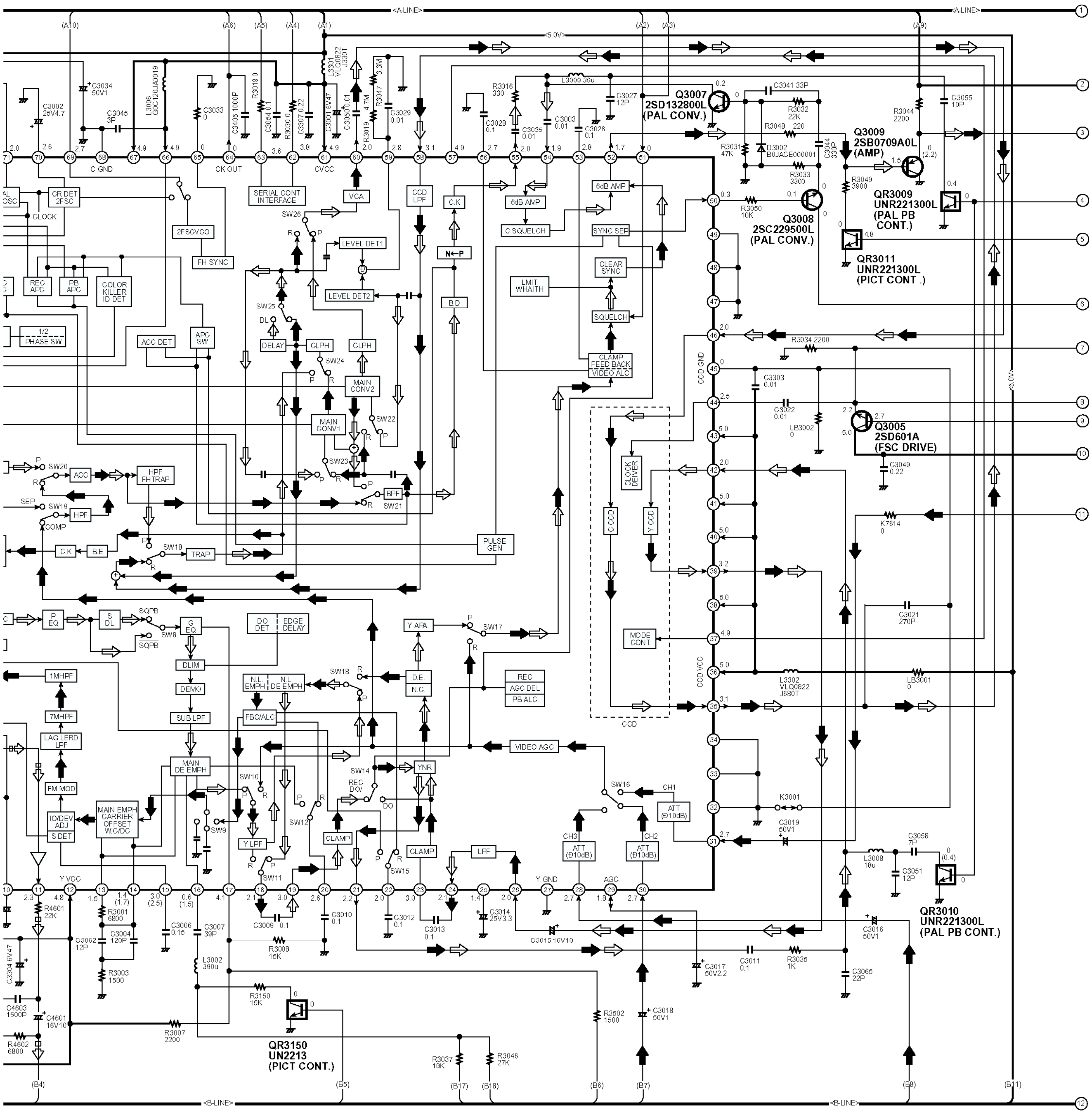
: VIDEO MAIN SIGNAL PATH IN REC MODE
: VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
: AUDIO MAIN S
: AUDIO MAIN S



(A) : NV-FJ620AM/AMC
(B) : NV-FJ620EU
(C) : NV-FJ620AU
(D) : NV-FJ620BD/BDX
(E) : NV-FJ625AM/AMM

NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH NTSC COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH NTSC COLOUR SIGNAL. (SP MODE)

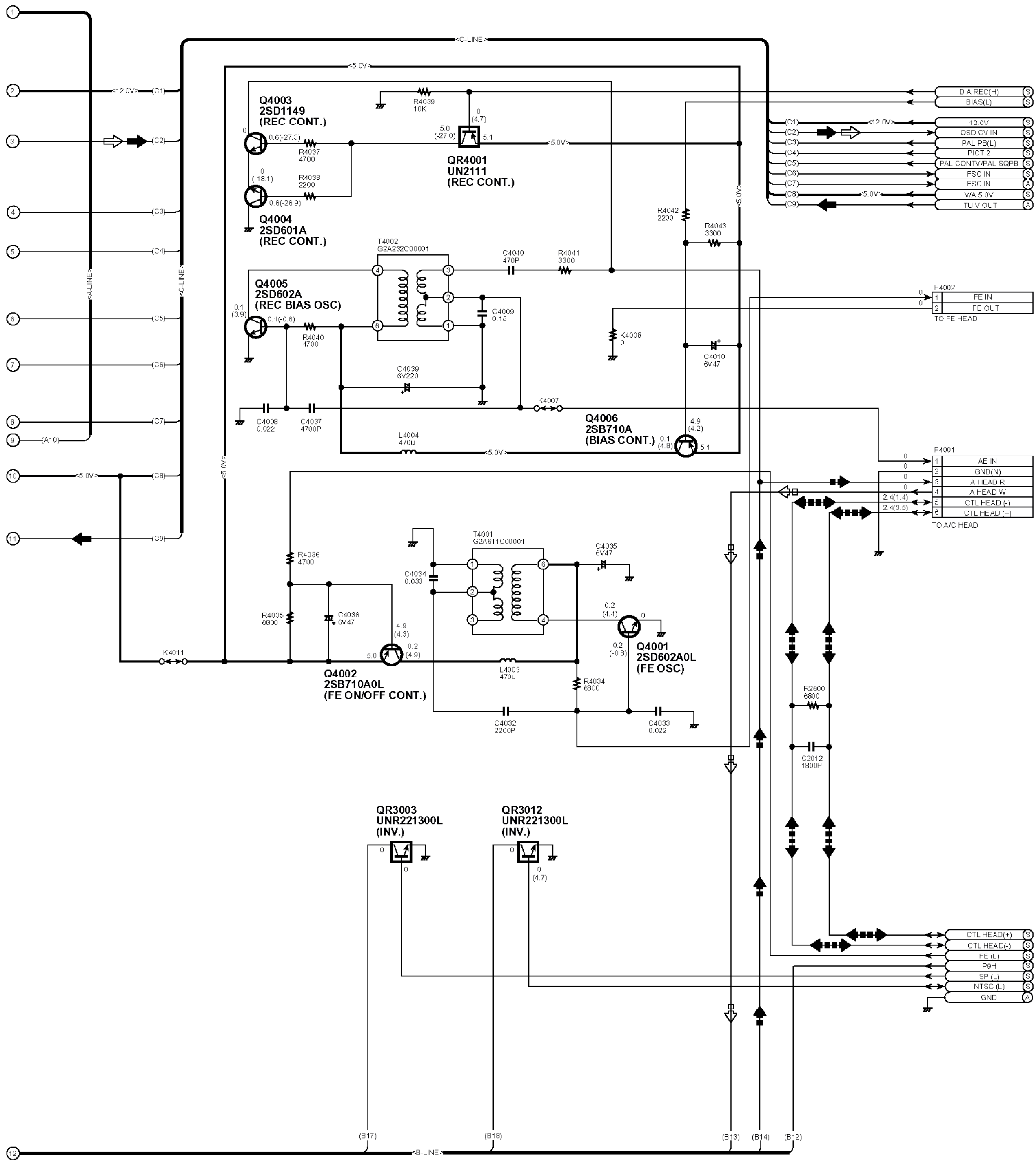
JDIO MAIN SIGNAL PATH IN REC MODE
JDIO MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

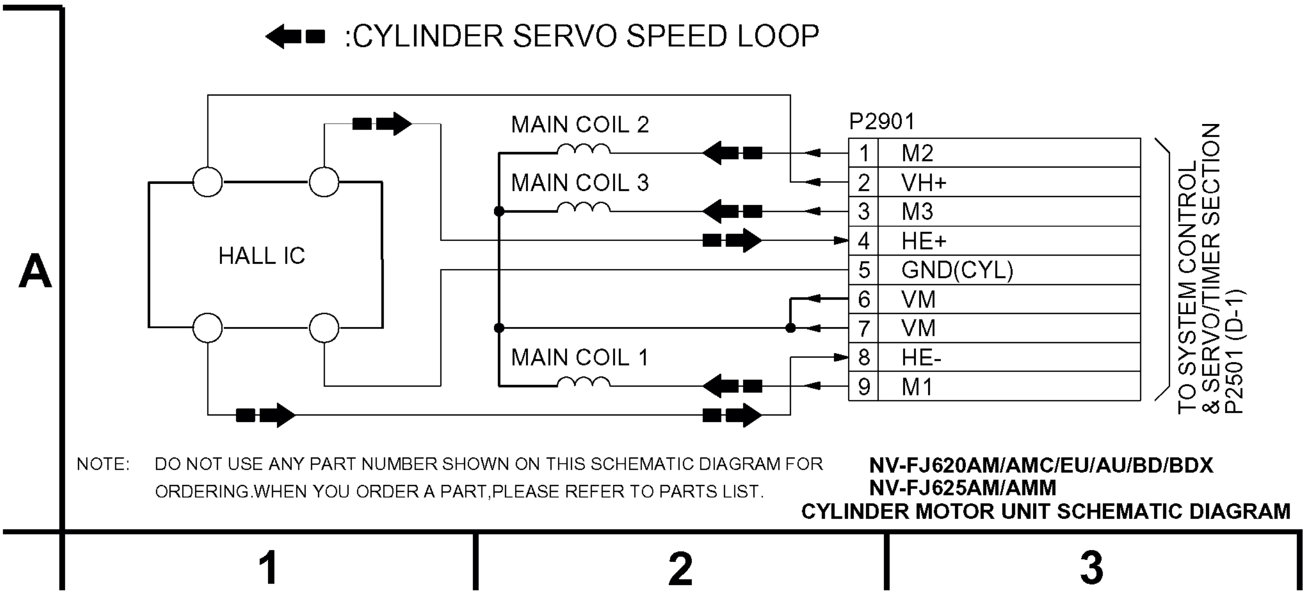
NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
VIDEO SECTION IN MAIN SCHEMATIC DIAGRAM

5	6	7	8	9



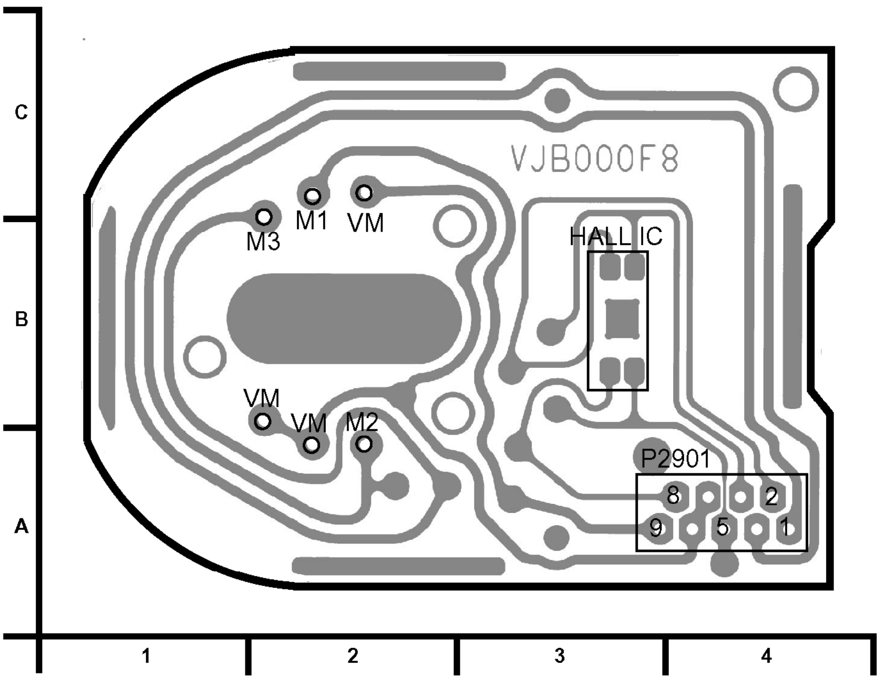
NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
VIDEO SECTION IN MAIN SCHEMATIC DIAGRAM

10	11	12	13



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-FJ620AM/AMC/EU/AU/BD/BDX
NV-FJ625AM/AMM
CYLINDER MOTOR UNIT SCHEMATIC DIAGRAM

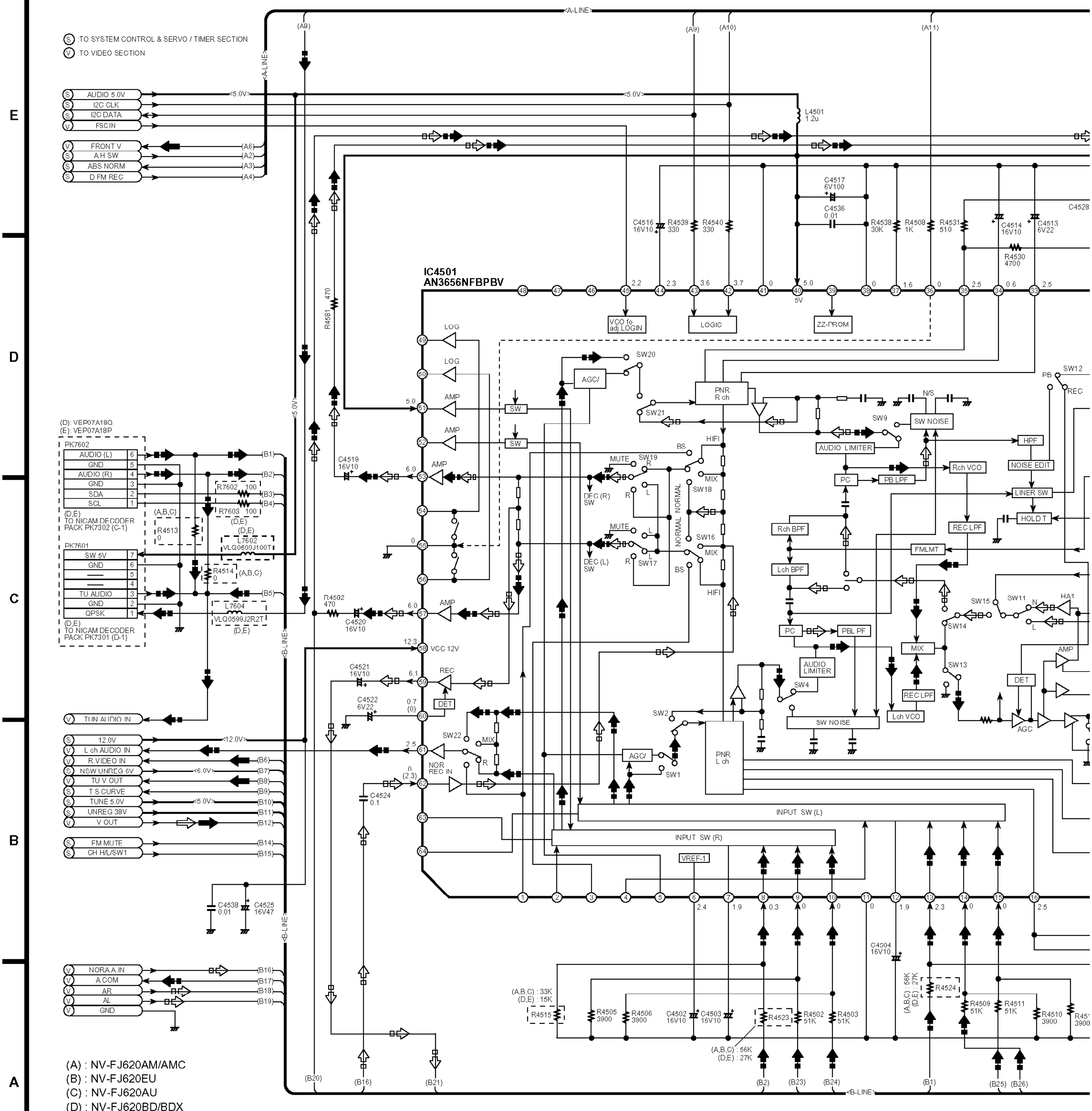


CYLINDER MOTOR UNIT	
Integrated Circuit	
HALL IC	B-3
Connector	
P2901	A-4

ADDRESS INFORMATION

NV-FJ620AM/AMC/EU/AU/BD/BDX
NV-FJ625AM/AMM
CYLINDER MOTOR C.B.A

:VIDEO MAIN SIGNAL PATH IN REC MODE :AUDIO MAIN SIGNAL PATH IN REC MODE :VIDE



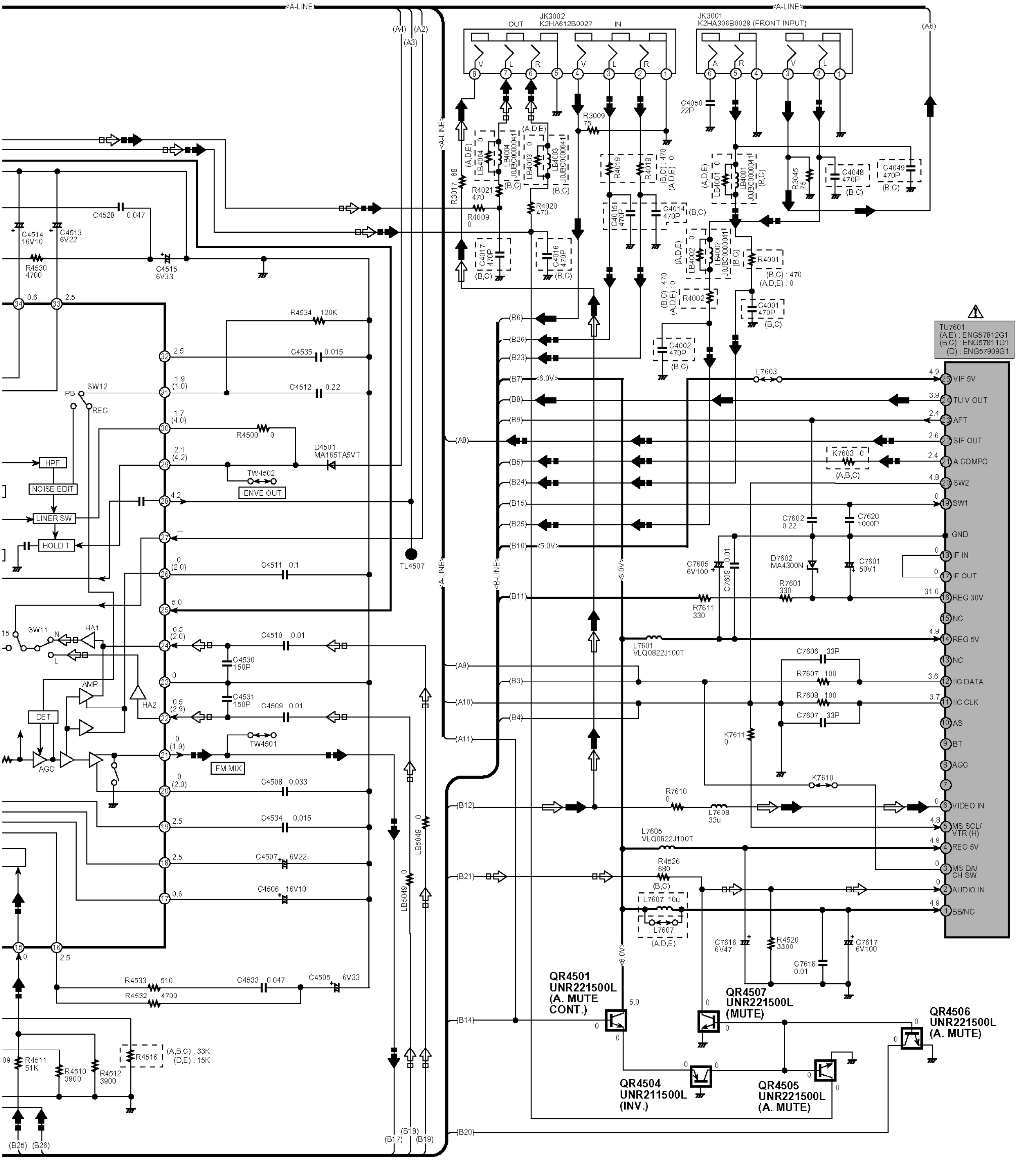
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHE
DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIS

NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH NTSC COLOUR SIGNAL. (SP MODE) THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH NTSC COLOUR SIGNAL. (SP MODE)

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECI
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE

1 2 3 4 5

E ⇦ :VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE ⇦ :AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



OWN ON THIS SCHEMATIC

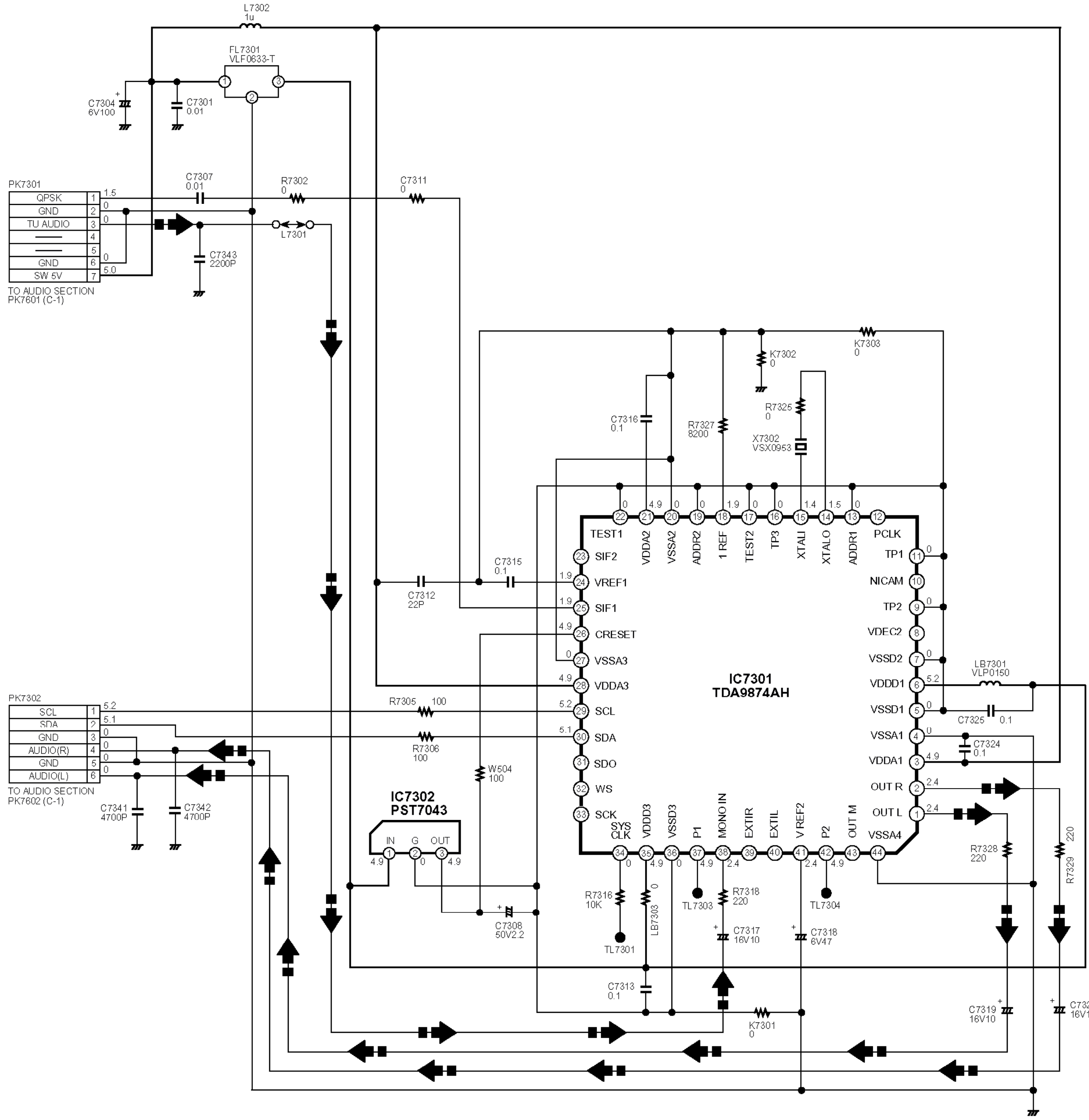
EFER TO PARTS LIST.

⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
NTS USE ONLY THE SAME TYPE.

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

5	6	7	8	9

:AUDIO SIGNAL PATH

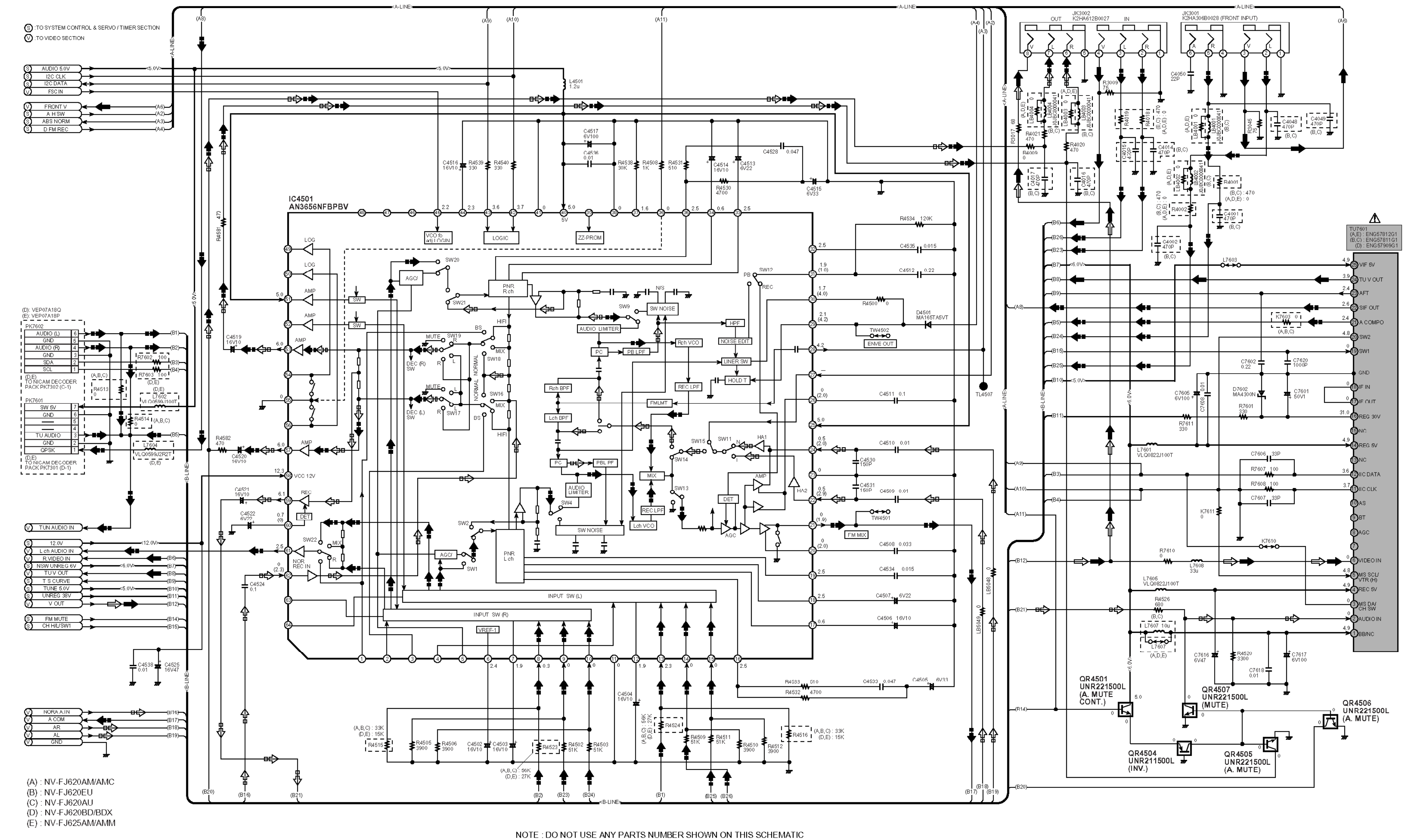


NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-FJ620BD/BDX,NV-FJ625AM/AMM
NICAM DECODER PACK SCHEMATIC DIAGRAM

:VIDEO MAIN SIGNAL PATH IN REC MODE :AUDIO MAIN SIGNAL PATH IN REC MODE :VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE :AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



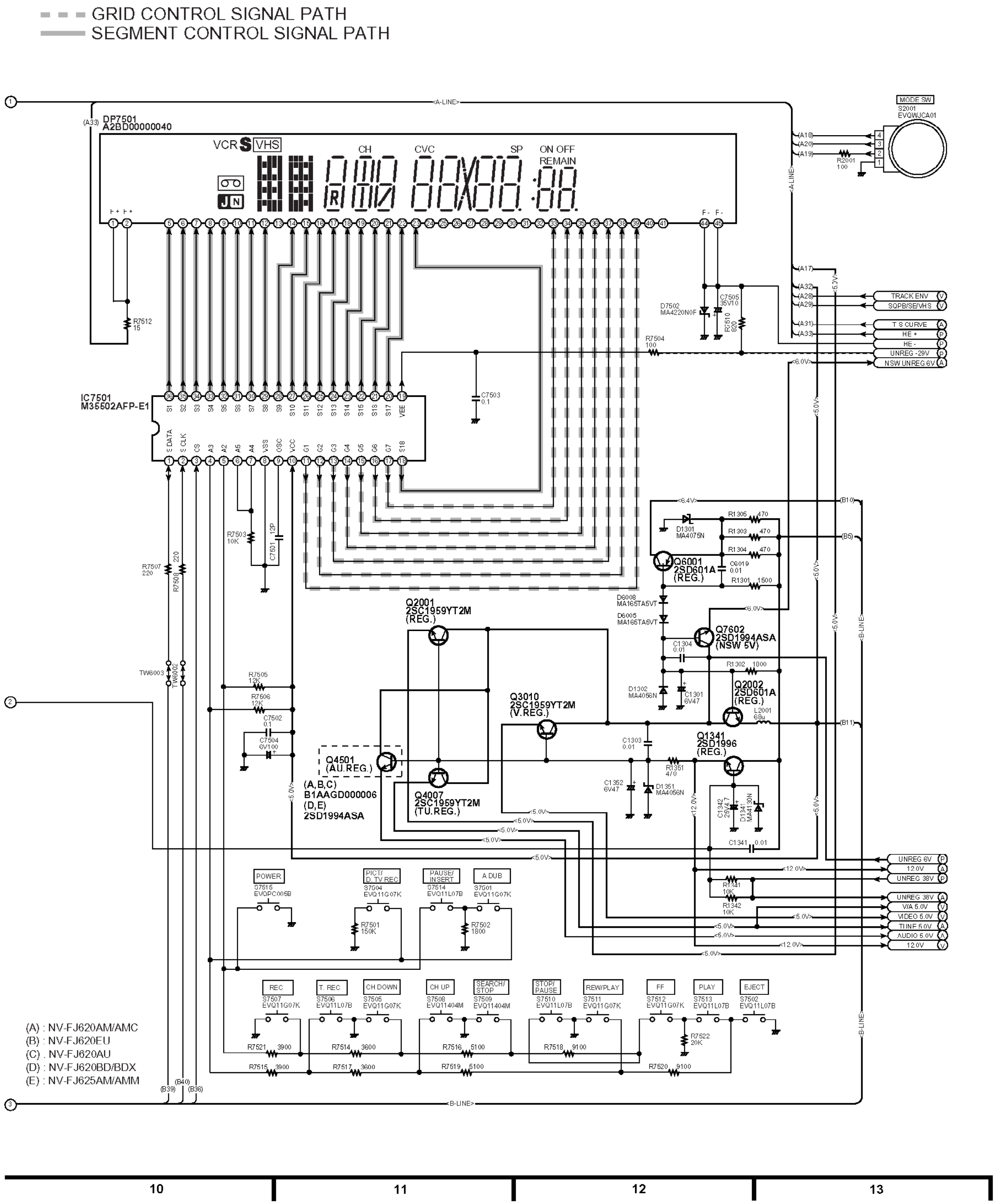
(A) : NV-FJ620AM/AMC
(B) : NV-FJ620EU
(C) : NV-FJ620AU
(D) : NV-FJ620BD/BDX
(E) : NV-FJ625AM/AMM

NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH NTSC COLOUR SIGNAL. (SP MODE) THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH NTSC COLOUR SIGNAL. (SP MODE)

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM



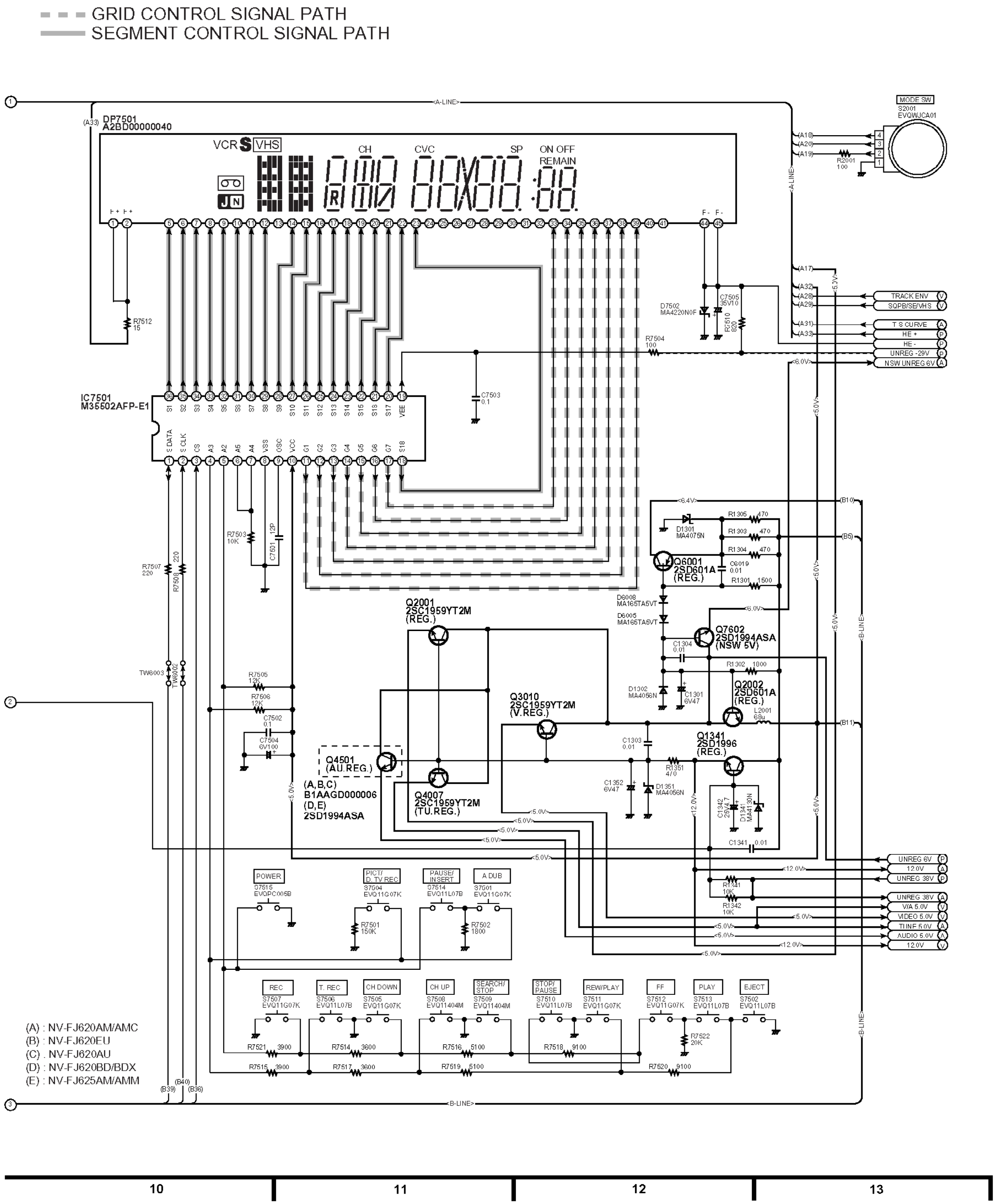
SYSTEM CONTROL & SERVO ICs VOLTAGE CHART (SP MODE)

Ref.No.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	14.4	14.4	14.7	1.1	5.0	1.0	1.0	0.5	2.3	1.3	0	3.8	3.8	3.9	0	14.4				
PLAY	14.3	14.3	14.6	1.1	5.0	1.0	1.0	0.4	2.3	1.3	0	3.8	3.8	3.8	0	14.3				
REC	14.3	14.3	14.6	0.8	5.0	1.0	1.0	0.4	2.3	1.3	0	3.8	3.8	3.8	0	14.3				
F.F	14.1	14.1	14.5	0.8	5.0	1.0	1.1	0.4	2.4	1.3	0	3.8	3.8	36.8	0	14.2				
REW	14.1	14.1	14.5	1.1	5.0	1.0	1.1	0.5	2.3	1.3	0	3.8	3.8	3.8	0	14.0				
Ref.No.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.8	0	2.4	0	0	4.9	4.8	4.7	1.0	0	0	4.9	0	4.9	4.8	0	4.8	-	0	0
PLAY	0.8	0	2.3	0.3	0	4.9	4.7	4.7	1.6	0	4.6	4.9	0	4.9	4.8	0	4.8	-	-	0
REC	0.8	0	2.3	0.3	0	4.9	4.8	4.6	0	0	4.6	4.8	0	4.9	4.8	0	4.8	-	0	4.7
F.F	0.8	0	2.3	0.3	0	4.9	4.7	4.5	0.8	0	4.8	4.9	0	4.9	4.7	0	4.8	-	0	0
REW	0.8	0	2.3	0.4	0	4.9	4.6	4.5	3.5	0	4.8	4.9	0	4.9	4.8	0	4.8	-	0	0
Ref.No.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	4.8	0	0	0	0	0	4.8	0	0	0	1.5	1.5	4.8	-	-	0
PLAY	0	0	0	0	0	0	0	0	0	0	4.8	0	0	4.8	1.5	1.5	4.8	-	-	0
REC	0	0	0	4.7	4.8	0	0	0	0	0	4.8	0	0	4.8	1.5	1.5	4.8	-	-	0
F.F	0	0	0	0	0	0	0	0	0	0	4.8	4.8	0	4.8	1.5	1.5	4.8	-	-	0
REW	0	0	0	0	4.8	0	0	0	0	0	4.8	4.9	0	4.9	1.6	1.6	4.9	-	-	0
Ref.No.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	4.8	0	0	4.4	4.4	0	1.3	2.1	0	2.2	4.2	2.2	5.0	2.1	1.5	1.9	0	0	0	0
PLAY	4.8	4.8	0	4.6	4.6	0	1.3	2.0	0	2.2	4.2	2.2	5.0	2.1	1.5	1.9	0	0	0	0
REC	4.8	4.8	0	0	0	0	1.3	2.0	0	2.2	4.2	2.2	5.0	2.1	1.5	1.9	0	0	0	0
F.F	4.9	0	0	2.9	2.9	0	1.3	2.1	0	2.2	4.2	2.2	5.0	2.0	1.5	1.9	0	0	0	0
REW	4.8	0	0	2.9	2.9	0	1.3	2.1	0	2.2	4.2	2.2	5.0	2.0	1.4	1.9	0	0	0	0
Ref.No.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	0	0	2.5	0	0	3.5	3.5	3.7	3.7	3.5	2.4	0	0	0	2.3	4.9	0.1	5.0
PLAY	0	0	0	0	2.7	0	0	3.4	3.4	3.7	3.7	3.5	2.4	0	0.3	2.4	2.3	4.9	5.0	5.0
REC	0	0	0	0	2.5	0	0	4.1	3.6	3.7	3.6	3.5	2.4	0	0.3	2.4	2.3	4.9	5.0	5.0
F.F	0	0	0	0	3.7	0	0	4.1	3.9	4.0	3.7	3.6	2.5	0	4.5	4.8	2.3	5.0	2.3	2.3
REW	0	0	0	0	3.7	0	0	3.7	3.7	3.8	3.6	2.5	4.8	4.5	4.8	2.3	5.0	2.2	2.7	5.0
Ref.No.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	0	0	0	4.1	0	2.4	2.4	0	0	1.1	2.4	2.4	0	2.4	2.4	2.4	2.4	4.9	4.9	4.8
PLAY	0	0	0	4.1	0	2.4	2.4	0	0	1.1	2.4	2.4	0	2.4	2.4	2.4	2.3	4.9	4.9	4.8
REC	0	0	0	4.1	0	2.4	2.4	0	0	0.8	2.4	2.4	0	2.9	2.1	2.4	2.4	4.9	4.9	0
F.F	0	0	0	4.2	0	2.5	2.5	0	0	1.1	2.5	2.5	0	2.4	2.4	2.4	2.4	5.0	5.0	4.9
REW	0	0	0	4.2	0	2.5	2.5	0	0	0.8	2.5	2.5	0	2.4	2.4	2.4	2.5	5.0	5.0	4.9
Ref.No.	IC6002					IC6003					IC6004					IC6005				
MODE	1	2	3	4	5	1	2	3			1	2	3	4		1	2	3	4	
STOP	4.9	4.9	0	0	0	4.9	0	4.9			1.1	2.2	5.0	0		0	1.1	5.0	0	
PLAY	4.9	4.9	0	0	0	4.9	0	4.9			1.1	2.2	5.0	0		0	1.1	5.0	0	
REC	4.9	4.9	0	0	0	4.9	0	4.9			1.1	2.2	5.0	0		0	1.1	5.0	0	
F.F	5.0	5.0	0	0	0	4.9	0	4.9			1.1	2.2	2.2	0		0	1.1	2.2	0	
REW	5.0	5.0	0	0	0	4.9	0	4.9			1.1	2.2	2.3	0		0	1.1	2.3	0	
Ref.No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.6	3.8	2.5	4.9	4.9	0	0	0	2.3	4.9	-24.7	-25.0	-25.1	-25.0	-24.9	-24.9	-24.9	-18.5	-29.8	-29.6
PLAY																				
REC																				
F.F																				
REW																				
Ref.No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
STOP	-18.5	-20.0	-14.0	-14.0	-19.0	-14.5	-14.6	-14.0	-18.6	-15.0	-15.0	-15.5	-24.4	-20.0	-10.5	-15.0				
PLAY																				
REC																				
F.F																				
REW																				

SYSTEM CONTROL & SERVO TRANSISTORs VOLTAGE CHART (SP MODE)

Ref.No.	Q1341			Q2001			Q2002			Q3010			Q4007			Q4501		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.2	14.7	12.9	5.0	5.7	5.7	5.0	5.7	5.7	5.0	5.6	5.7	5.0	5.6	5.7	5.0	5.6	5.7
PLAY	12.3	14.7	12.9	5.0	5.9	5.8	5.0	5.9	5.7	5.0	5.8	5.8	5.0	5.8	5.7	5.0	5.8	5.8
REC	12.3	14.7	12.9	5.0	5.8	5.8	5.0	5.8	5.7	5.0	5.7	5.7	5.0	5.7	5.7	5.0	5.7	5.8
F.F	12.5	14.5	13.2	5.0	6.1	5.7	5.1	6.1	5.8	5.0	6.0	5.7	5.0	6.0	5.7	5.0	6.0	5.7
REW	12.5	14.5	13.2	5.0	6.0	5.7	5.1	6.1	5.8	5.0	6.0	5.7	5.0	6.0	5.7	5.0	5.9	5.7
Ref.No.	Q6001			Q6002			Q6003			Q7602			Q7701					
MODE	E	C	B	-	+		-	+		E	C	B	E	C	B			
STOP	6.4	7.7	7.0	0	4.7		0	4.8		5.0	5.9	5.7	2.0	0	1.4			
PLAY	6.4	7.7	7.0	0	4.7		0	4.8		5.0	6.1	5.7	2.7	0	2.1			
REC	6.4	7.7	7.0	0	4.7		0	4.8		5.0	6.0	5.7	2.0	0	1.5			
F.F	6.4	7.6	7.1	0	4.7		0	4.8		5.0	6.3	5.7	2.0	0	1.5			
REW	6.4	7.6	7.1	0	4.7		0	4.8		5.0	5.9	5.7	2.0	0	1.4			
Ref.No.	QR2001			QR6002														
MODE	E	C	B	E	C	B												
STOP	0	0	4.8	0	12.9	0												
PLAY	0	0	4.8	0	12.9	0												
REC	0	0	4.8	0	12.9	0												
F.F	0	1.6	0	0	13.2	0												
REW	0	1.6	0	0	13.2	0												

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
SYSTEM CONTROL & SERVO/TIMER IN MAIN SCHEMATIC DIAGRAM



SYSTEM CONTROL & SERVO ICs VOLTAGE CHART (SP MODE)

Ref.No.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	14.4	14.4	14.7	1.1	5.0	1.0	1.0	0.5	2.3	1.3	0	3.8	3.8	3.9	0	14.4				
PLAY	14.3	14.3	14.6	1.1	5.0	1.0	1.0	0.4	2.3	1.3	0	3.8	3.8	3.8	0	14.3				
REC	14.3	14.3	14.6	0.8	5.0	1.0	1.0	0.4	2.3	1.3	0	3.8	3.8	3.8	0	14.3				
F.F	14.1	14.1	14.5	0.8	5.0	1.0	1.1	0.4	2.4	1.3	0	3.8	3.8	36.8	0	14.2				
REW	14.1	14.1	14.5	1.1	5.0	1.0	1.1	0.5	2.3	1.3	0	3.8	3.8	3.8	0	14.0				
Ref.No.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.8	0	2.4	0	0	4.9	4.8	4.7	1.0	0	0	4.9	0	4.9	4.8	0	4.8	-	0	0
PLAY	0.8	0	2.3	0.3	0	4.9	4.7	4.7	1.6	0	4.6	4.9	0	4.9	4.8	0	4.8	-	-	0
REC	0.8	0	2.3	0.3	0	4.9	4.8	4.6	0	0	4.6	4.8	0	4.9	4.8	0	4.8	-	0	4.7
F.F	0.8	0	2.3	0.3	0	4.9	4.7	4.5	0.8	0	4.8	4.9	0	4.9	4.7	0	4.8	-	0	0
REW	0.8	0	2.3	0.4	0	4.9	4.6	4.5	3.5	0	4.8	4.9	0	4.9	4.8	0	4.8	-	0	0
Ref.No.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	4.8	0	0	0	0	0	4.8	0	0	0	1.5	1.5	4.8	-	-	0
PLAY	0	0	0	0	0	0	0	0	0	0	4.8	0	0	4.8	1.5	1.5	4.8	-	-	0
REC	0	0	0	4.7	4.8	0	0	0	0	0	4.8	0	0	4.8	1.5	1.5	4.8	-	-	0
F.F	0	0	0	0	0	0	0	0	0	0	4.8	4.8	0	4.8	1.5	1.5	4.8	-	-	0
REW	0	0	0	0	4.8	0	0	0	0	0	4.8	4.9	0	4.9	1.6	1.6	4.9	-	-	0
Ref.No.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	4.8	0	0	4.4	4.4	0	1.3	2.1	0	2.2	4.2	2.2	5.0	2.1	1.5	1.9	0	0	0	0
PLAY	4.8	4.8	0	4.6	4.6	0	1.3	2.0	0	2.2	4.2	2.2	5.0	2.1	1.5	1.9	0	0	0	0
REC	4.8	4.8	0	0	0	0	1.3	2.0	0	2.2	4.2	2.2	5.0	2.1	1.5	1.9	0	0	0	0
F.F	4.9	0	0	2.9	2.9	0	1.3	2.1	0	2.2	4.2	2.2	5.0	2.0	1.5	1.9	0	0	0	0
REW	4.8	0	0	2.9	2.9	0	1.3	2.1	0	2.2	4.2	2.2	5.0	2.0	1.4	1.9	0	0	0	0
Ref.No.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	0	0	2.5	0	0	3.5	3.5	3.7	3.7	3.5	2.4	0	0	0	2.3	4.9	0.1	5.0
PLAY	0	0	0	0	2.7	0	0	3.4	3.4	3.7	3.7	3.5	2.4	0	0.3	2.4	2.3	4.9	5.0	5.0
REC	0	0	0	0	2.5	0	0	4.1	3.6	3.7	3.6	3.5	2.4	0	0.3	2.4	2.3	4.9	5.0	5.0
F.F	0	0	0	0	3.7	0	0	4.1	3.9	4.0	3.7	3.6	2.5	0	4.5	4.8	2.3	5.0	2.3	2.3
REW	0	0	0	0	3.7	0	0	3.7	3.7	3.8	3.6	2.5	4.8	4.5	4.8	2.3	5.0	2.2	2.7	5.0
Ref.No.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	0	0	0	4.1	0	2.4	2.4	0	0	1.1	2.4	2.4	0	2.4	2.4	2.4	2.4	4.9	4.9	4.8
PLAY	0	0	0	4.1	0	2.4	2.4	0	0	1.1	2.4	2.4	0	2.4	2.4	2.4	2.3	4.9	4.9	4.8
REC	0	0	0	4.1	0	2.4	2.4	0	0	0.8	2.4	2.4	0	2.9	2.1	2.4	2.4	4.9	4.9	0
F.F	0	0	0	4.2	0	2.5	2.5	0	0	1.1	2.5	2.5	0	2.4	2.4	2.4	2.4	5.0	5.0	4.9
REW	0	0	0	4.2	0	2.5	2.5	0	0	0.8	2.5	2.5	0	2.4	2.4	2.4	2.5	5.0	5.0	4.9
Ref.No.	IC6002					IC6003					IC6004					IC6005				
MODE	1	2	3	4	5	1	2	3			1	2	3	4		1	2	3	4	
STOP	4.9	4.9	0	0	0	4.9	0	4.9			1.1	2.2	5.0	0		0	1.1	5.0	0	
PLAY	4.9	4.9	0	0	0	4.9	0	4.9			1.1	2.2	5.0	0		0	1.1	5.0	0	
REC	4.9	4.9	0	0	0	4.9	0	4.9			1.1	2.2	5.0	0		0	1.1	5.0	0	
F.F	5.0	5.0	0	0	0	4.9	0	4.9			1.1	2.2	2.2	0		0	1.1	2.2	0	
REW	5.0	5.0	0	0	0	4.9	0	4.9			1.1	2.2	2.3	0		0	1.1	2.3	0	
Ref.No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.6	3.8	2.5	4.9	4.9	0	0	0	2.3	4.9	-24.7	-25.0	-25.1	-25.0	-24.9	-24.9	-24.9	-18.5	-29.8	-29.6
PLAY																				
REC																				
F.F																				
REW																				
Ref.No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
STOP	-18.5	-20.0	-14.0	-14.0	-19.0	-14.5	-14.6	-14.0	-18.6	-15.0	-15.0	-15.5	-24.4	-20.0	-10.5	-15.0				
PLAY																				
REC																				
F.F																				
REW																				

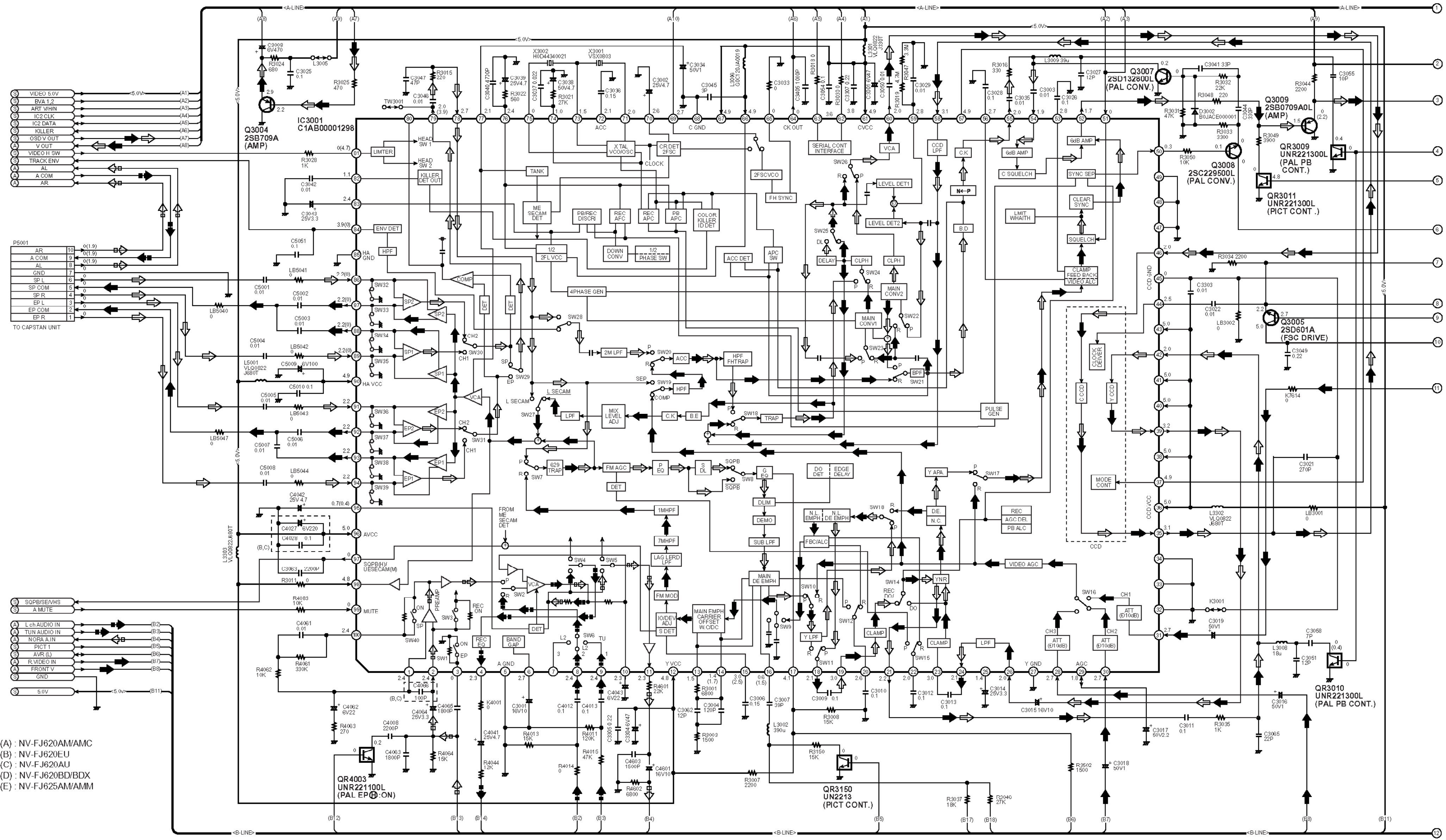
SYSTEM CONTROL & SERVO TRANSISTORs VOLTAGE CHART (SP MODE)

Ref.No.	Q1341			Q2001			Q2002			Q3010			Q4007			Q4501		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.2	14.7	12.9	5.0	5.7	5.7	5.0	5.7	5.7	5.0	5.6	5.7	5.0	5.6	5.7	5.0	5.6	5.7
PLAY	12.3	14.7	12.9	5.0	5.9	5.8	5.0	5.9	5.7	5.0	5.8	5.8	5.0	5.8	5.7	5.0	5.8	5.8
REC	12.3	14.7	12.9	5.0	5.8	5.8	5.0	5.8	5.7	5.0	5.7	5.7	5.0	5.7	5.7	5.0	5.7	5.8
F.F	12.5	14.5	13.2	5.0	6.1	5.7	5.1	6.1	5.8	5.0	6.0	5.7	5.0	6.0	5.7	5.0	6.0	5.7
REW	12.5	14.5	13.2	5.0	6.0	5.7	5.1	6.1	5.8	5.0	6.0	5.7	5.0	6.0	5.7	5.0	5.9	5.7
Ref.No.	Q6001			Q6002			Q6003			Q7602			Q7701					
MODE	E	C	B	-	+		-	+		E	C	B	E	C	B			
STOP	6.4	7.7	7.0	0	4.7		0	4.8		5.0	5.9	5.7	2.0	0	1.4			
PLAY	6.4	7.7	7.0	0	4.7		0	4.8		5.0	6.1	5.7	2.7	0	2.1			
REC	6.4	7.7	7.0	0	4.7		0	4.8		5.0	6.0	5.7	2.0	0	1.5			
F.F	6.4	7.6	7.1	0	4.7		0	4.8		5.0	6.3	5.7	2.0	0	1.5			
REW	6.4	7.6	7.1	0	4.7		0	4.8		5.0	5.9	5.7	2.0	0	1.4			
Ref.No.	QR2001			QR6002														
MODE	E	C	B	E	C	B												
STOP	0	0	4.8	0	12.9	0												
PLAY	0	0	4.8	0	12.9	0												
REC	0	0	4.8	0	12.9	0												
F.F	0	1.6	0	0	13.2	0												
REW	0	1.6	0	0	13.2	0												

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
SYSTEM CONTROL & SERVO/TIMER IN MAIN SCHEMATIC DIAGRAM

Ⓐ TO:AUDIO SECTION
Ⓢ TO:SYSTEM CONTROL & SERVO / TIMER SECTION

◀ : VIDEO MAIN SIGNAL PATH IN REC MODE
⇦ : VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
◀▪ : AUDIO MAIN SIGNAL PATH IN REC MODE
⇦▫ : AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH NTSC COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH NTSC COLOUR SIGNAL. (SP MODE)

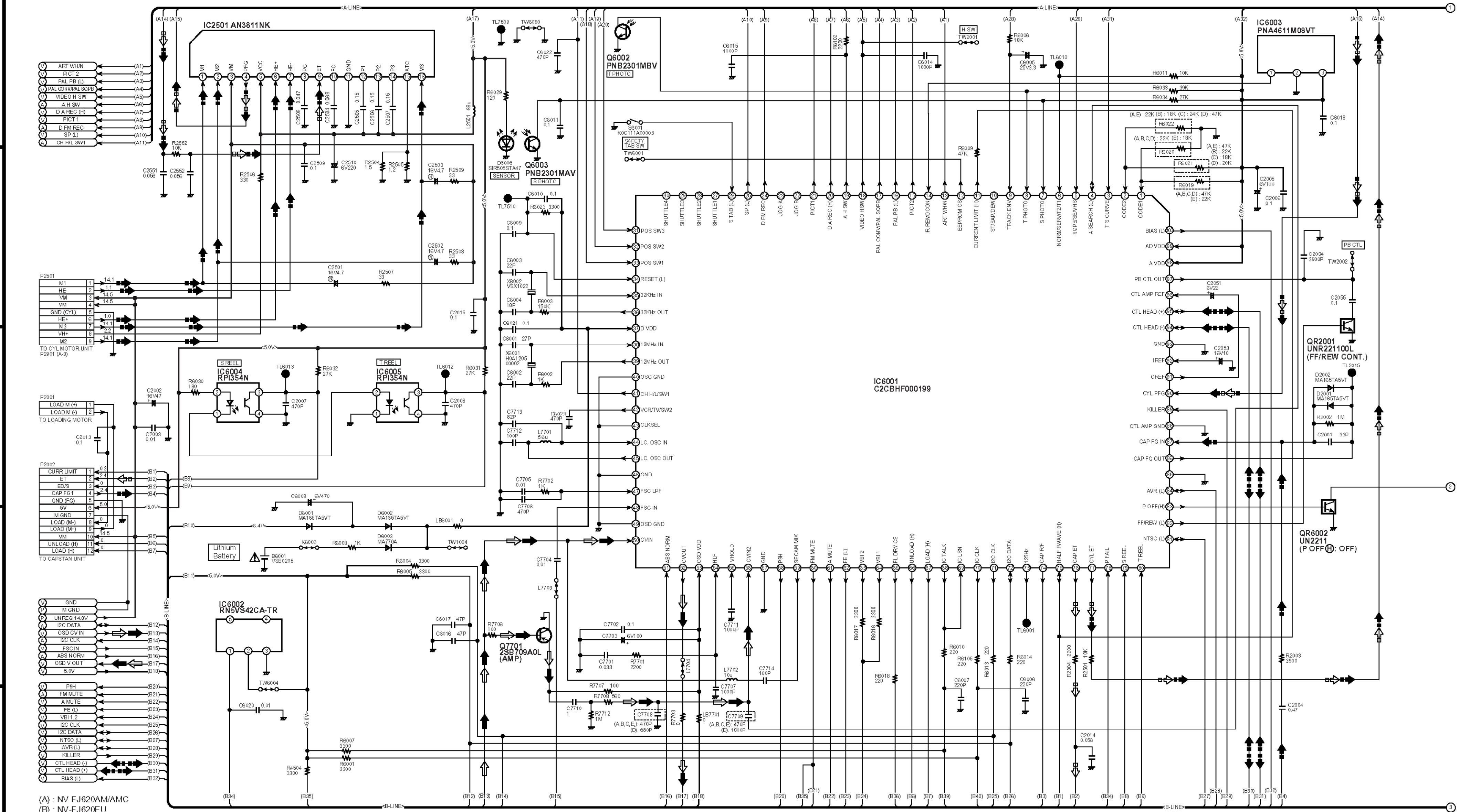
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
VIDEO SECTION IN MAIN SCHEMATIC DIAGRAM

1 2 3 4 5 6 7 8 9

Ⓐ : TO AUDIO SECTION
Ⓥ : TO VIDEO SECTION
Ⓟ : TO POWER SECTION

:VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
:VIDEO MAIN SIGNAL PATH IN REC MODE
:CAPSTAN SERVO PHASE LOOP
:CAPSTAN SERVO SPEED LOOP
:CYLINDER SERVO SPEED LOOP
:CYLINDER SERVO PHASE LOOP



(A) : NV-FJ620AM/AMC
(B) : NV-FJ620EU
(C) : NV-FJ620AU
(D) : NV-FJ620BD/BDX
(E) : NV-FJ625AM/AMM

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICSFOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

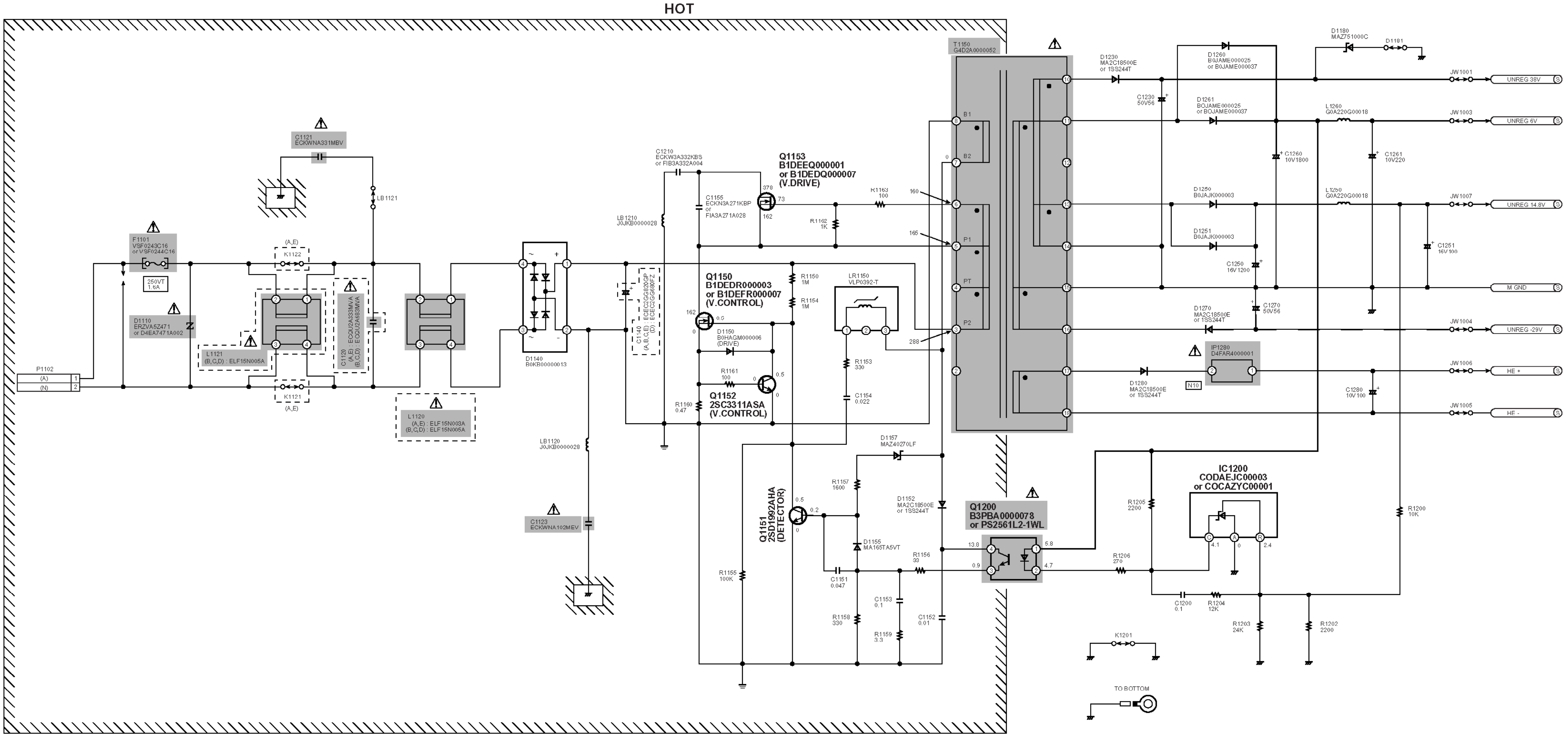
NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
SYSTEM CONTROL & SERVO / TIMER IN MAIN SCHEMATIC DIAGRAM

CAUTION

THE [hatched] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

(S) : TO SYSTEM CONTROL & SERVO / TIMER SECTION



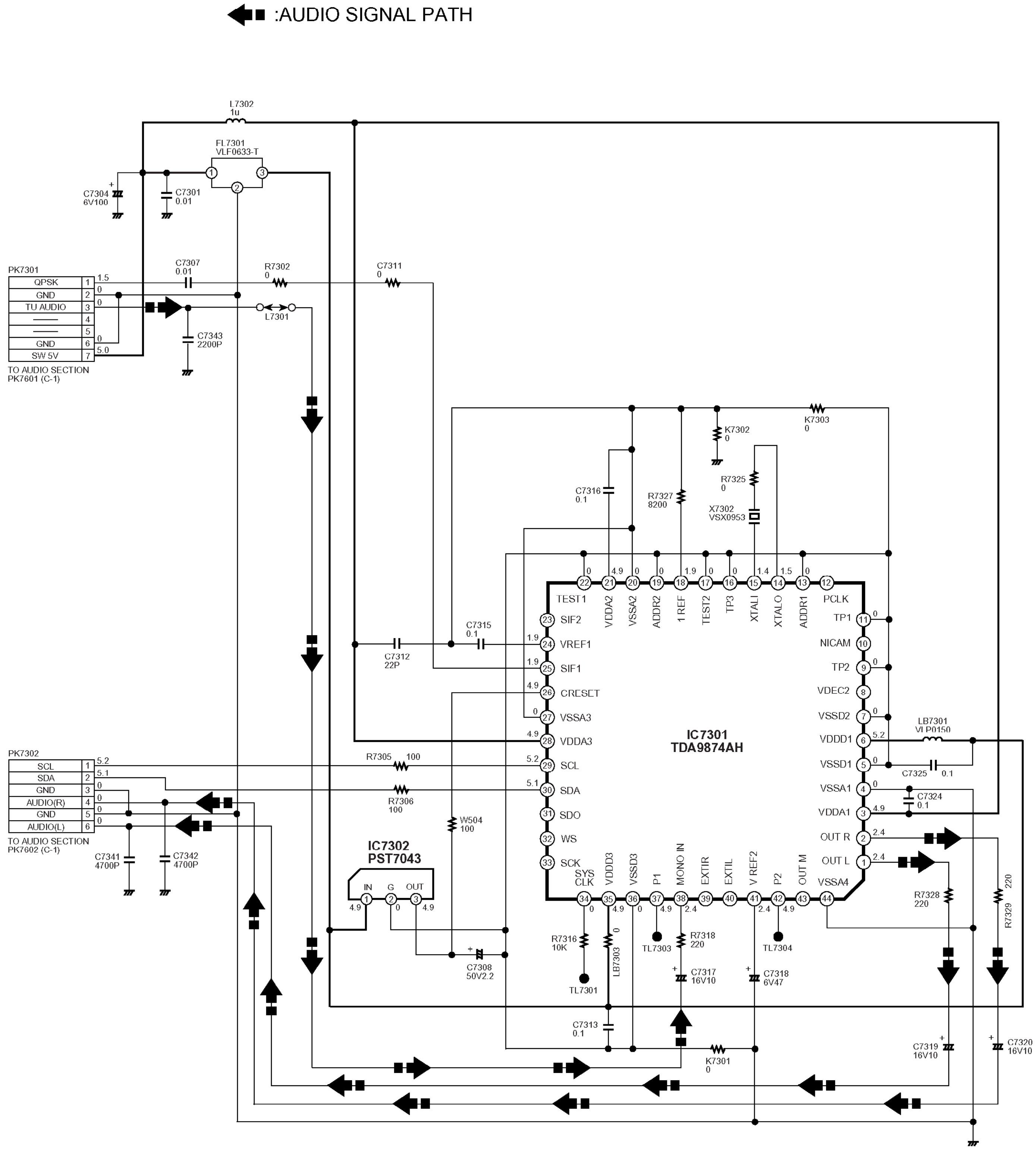
(A) : NV-FJ620AM/AMC
(B) : NV-FJ620EU
(C) : NV-FJ620AU
(D) : NV-FJ620BD/BDX
(E) : NV-FJ625AM/AMM

NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.
NOTE1: WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT,SET THE GND TERMINAL OF MEASURING POINT AS FOLLWS. PRIMARY SIDE... [ground symbol] SECONDARY SIDE... [ground symbol]
NOTE2:THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

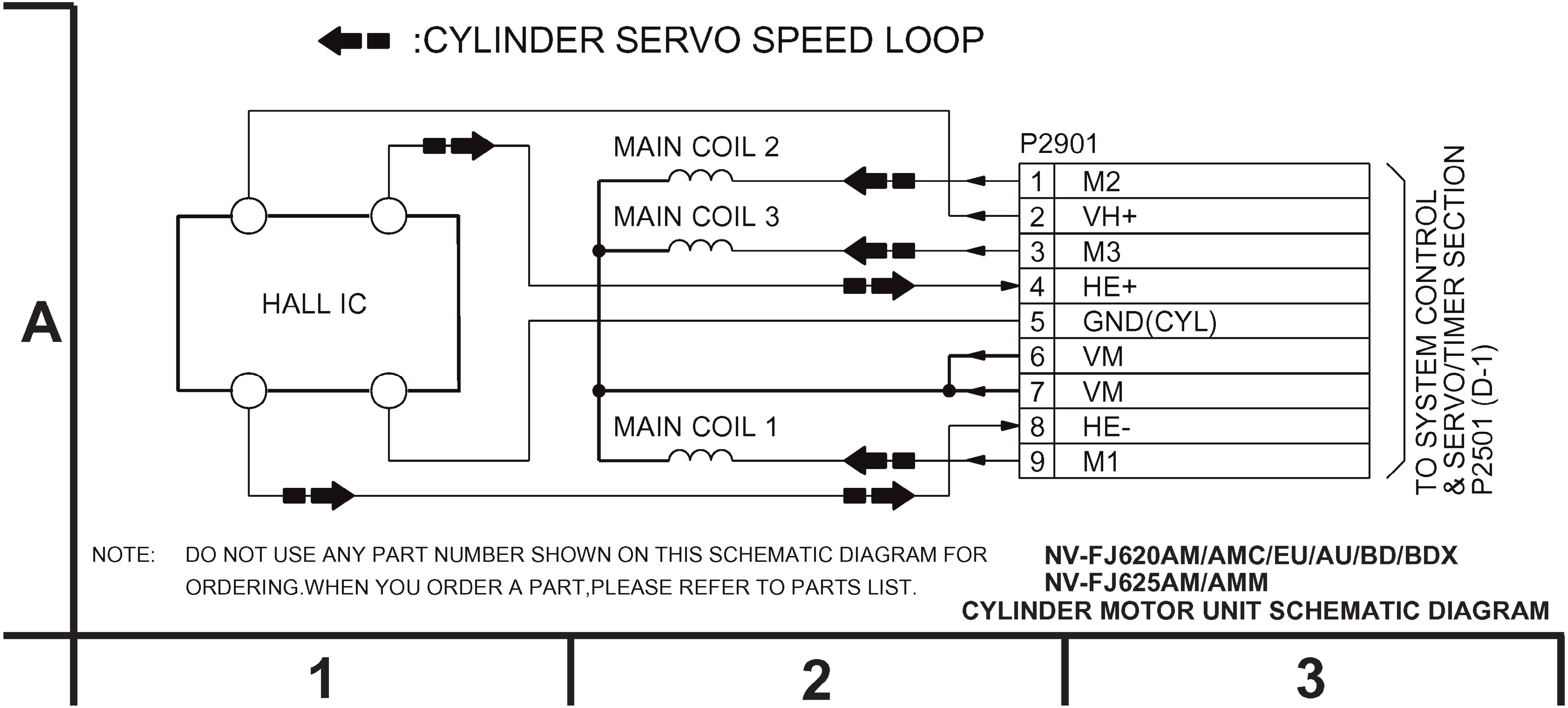
NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
POWER SECTION IN MAIN SCHEMATIC DIAGRAM



NOTE : DO NOT USE ANY PARTS NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.
WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NV-FJ620BD/BDX,NV-FJ625AM/AMM
NICAM DECODER PACK SCHEMATIC DIAGRAM



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-FJ620AM/AMC/EU/AU/BD/BDX
NV-FJ625AM/AMM
CYLINDER MOTOR UNIT SCHEMATIC DIAGRAM

For your safety please read the following text carefully
This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS 1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstance should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol ⏚.

How to replace the Fuse

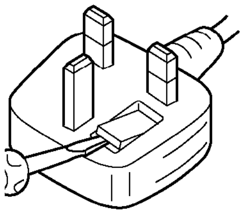
- There are two types of the AC Mains Lead assembly: **A** and **B** as shown below.

1 Open the fuse compartment with a screwdriver.

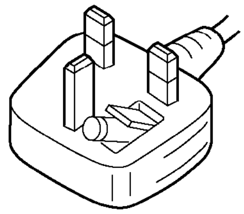
2 Replace the fuse and fuse cover.

TYPE A

1

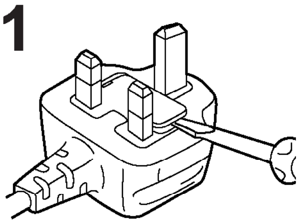


2

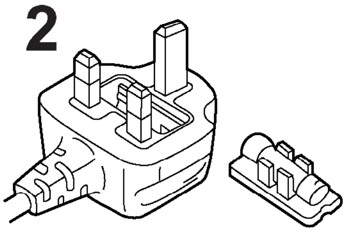


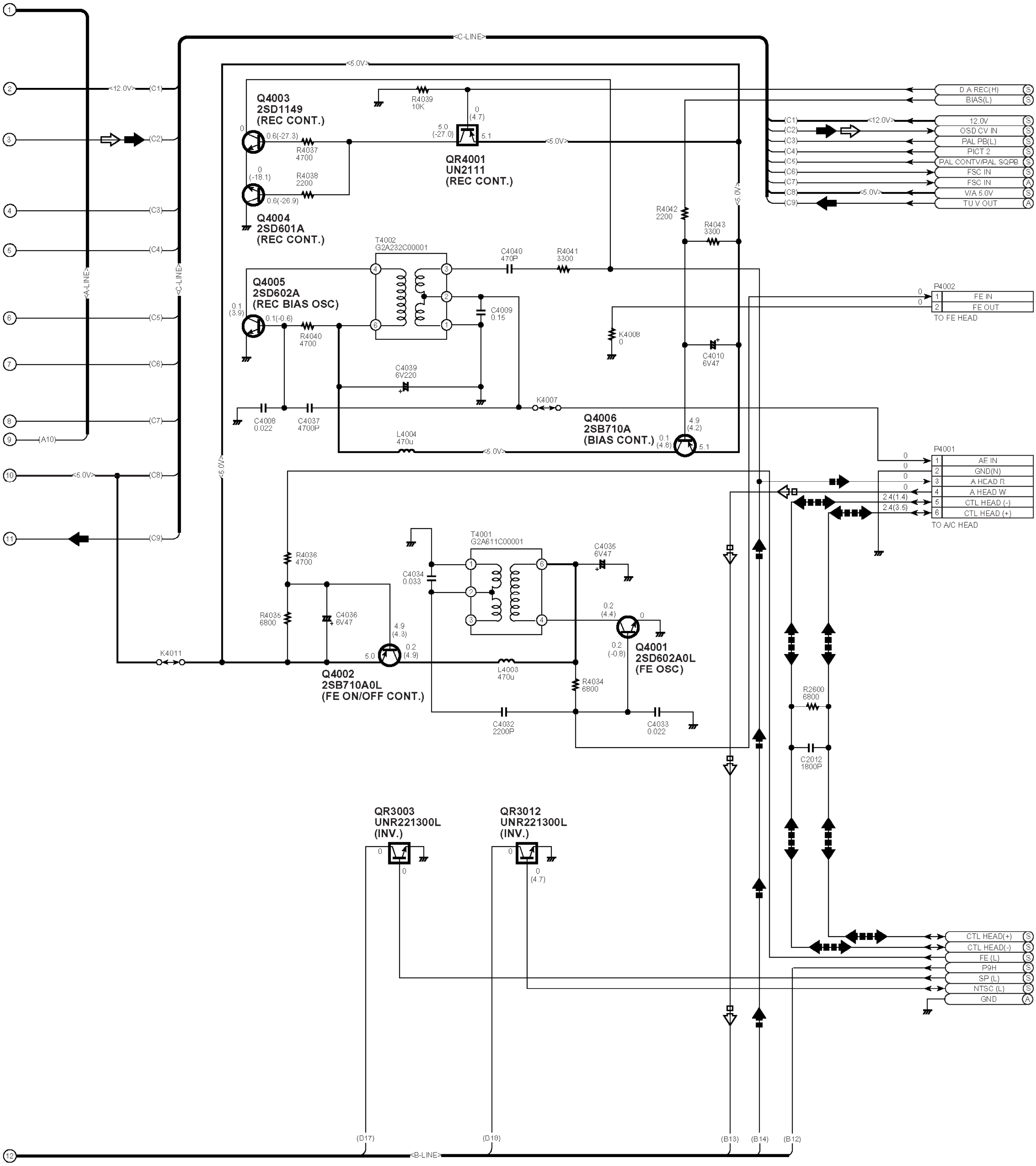
TYPE B

1



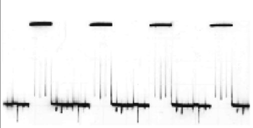
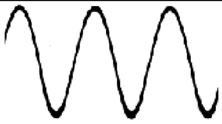
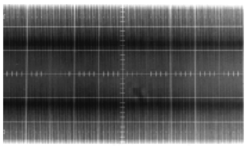
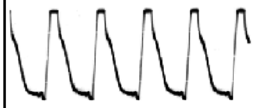
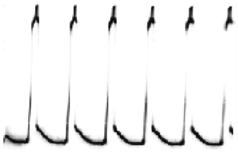
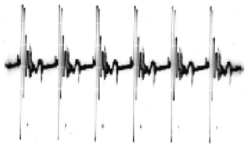
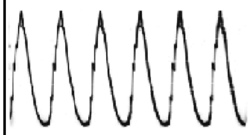
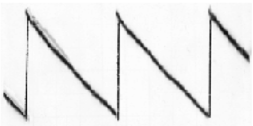
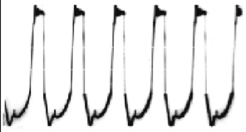
2

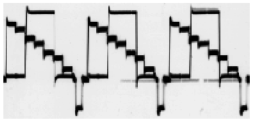




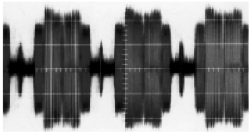
NV-FJ620AM/AMC/EU/AU/BD/BDX,NV-FJ625AM/AMM
VIDEO SECTION IN MAIN SCHEMATIC DIAGRAM

10	11	12	13

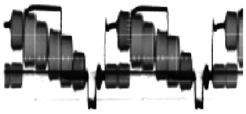
 IC7501- 22,29 - 36 STOP 40Vp-p (1msec. div.)	 IC4501- 10,15 REC 60mVp-p (1msec. div.) IC4501- 53,57 REC 0.6Vp-p (1msec. div.) IC4501- 61 REC 130mVp-p (1msec. div.)	 IC4501- 21 REC 1.4Vp-p (20usec. div.)	 Q1153 - E STOP 450Vp-p (5usec. div.) Q1153 - B STOP 550Vp-p (5usec. div.) Q1150 - 3 STOP 550Vp-p (5usec. div.)	 Q1153 - C STOP 200Vp-p (5usec. div.)
 Q1150 - 1 STOP 6.0Vp-p (5usec. div.) Q1152 - C STOP 5.0Vp-p (5usec. div.)	 Q1151 - C STOP 5.0Vp-p (5usec. div.) T1150 - 5,6 STOP 450Vp-p (5usec. div.)	 Q1150 - 2 STOP 350mVp-p (5usec. div.) Q1152 - B STOP 200mVp-p (5usec. div.)	 Q1152 - E STOP 130mVp-p (5usec. div.) Q1151 - E STOP 140mVp-p (5usec. div.)	 Q1151 - B STOP 0.5Vp-p (5usec. div.)
 T1150 - 3 STOP 3.5Vp-p (2msec. div.)	 T1150 - 7 STOP 27.0Vp-p (5usec. div.)			



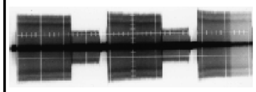
IC3001- 18,19,23,24 PLAY
0.5Vp-p (20usec. div.)
IC3001- 21,42 PLAY
0.4Vp-p (20usec. div.)
IC3001- 26,39 PLAY
0.6Vp-p (20usec. div.)



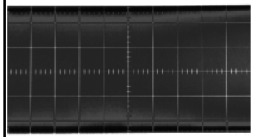
IC3001- 35 PLAY
0.6Vp-p (20usec. div.)
IC3001- 46 PLAY
0.35Vp-p (20usec. div.)



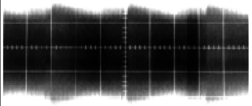
IC3001- 52 PLAY
2.0Vp-p (20usec. div.)



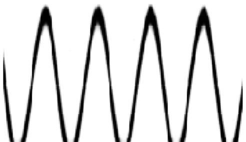
IC3001- 54 PLAY
0.3Vp-p (5msec. div.)
IC3001- 55,58 PLAY
0.6Vp-p (5msec. div.)
IC3001- 60 PLAY
0.4Vp-p (5msec. div.)



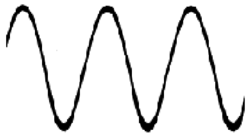
IC3001- 71 PLAY
0.35Vp-p (0.5msec. div.)
IC3001- 73 PLAY
0.6Vp-p (0.5msec. div.)



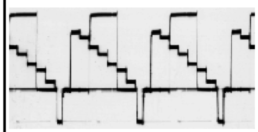
IC3001- 78,79 PLAY
350mVp-p (5msec. div.)



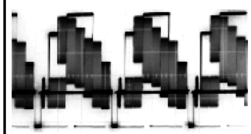
IC3001- 4 REC
1.0Vp-p (1msec. div.)



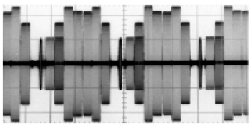
IC3001- 8 REC
120m Vp-p (1msec. div.)



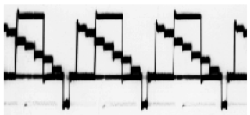
IC3001- 18,19,23,24,26 REC
0.55Vp-p (20usec. div.)
IC3001- 42 REC
0.5Vp-p (20usec. div.)



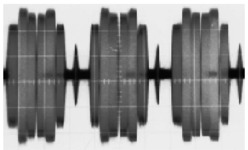
IC3001- 28 REC
1.0Vp-p (20usec. div.)
IC3001- 52 REC
2.0Vp-p (20usec. div.)



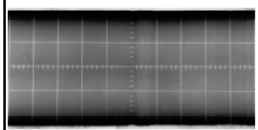
IC3001- 35 REC
1.0Vp-p (20usec. div.)



IC3001- 39 REC
0.6Vp-p (20usec. div.)



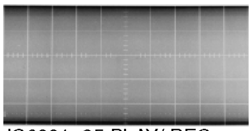
IC3001- 46,60 REC
0.35Vp-p (20usec. div.)
IC3001- 58 REC
0.5Vp-p (20usec. div.)



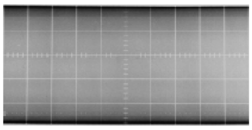
IC3001- 87,88 REC
1.7Vp-p (1msec. div.)



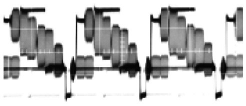
IC6001- 18,19 PLAY/ REC
7Vp-p (10msec. div.)
IC7501- 3 STOP
6.0Vp-p (5msec. div.)



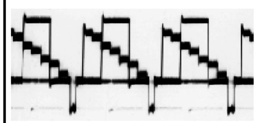
IC6001- 35 PLAY/ REC
1.4Vp-p (1msec. div.)
IC6001- 36 PLAY/ REC
3.0Vp-p (1msec. div.)
IC6001- 39 PLAY/ REC
3.0Vp-p (20usec. div.)



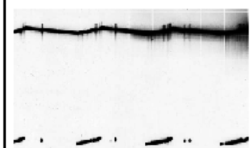
IC6001- 38 PLAY/ REC
1.5Vp-p (20usec. div.)
IC6001- 48 PLAY/ REC
0.5Vp-p (20usec. div.)



IC6001- 50,52 PLAY/ REC
2.0Vp-p (20usec. div.)



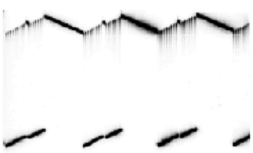
IC6001- 56 PLAY/ REC
2.0Vp-p (20usec. div.)



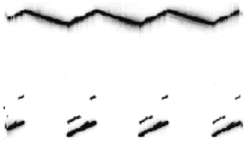
IC6001- 68,69 PLAY/ REC
6.0Vp-p (5msec. div.)
IC7501- 1 STOP
6.0Vp-p (5msec. div.)



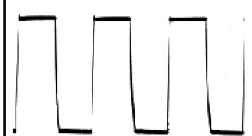
IC6001- 70 PLAY/ REC
6.0Vp-p (2msec. div.)
IC7501- 2 STOP
6.0Vp-p (2msec. div.)



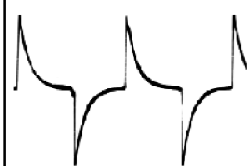
IC6001- 71 PLAY/ REC
6.0Vp-p (5msec. div.)



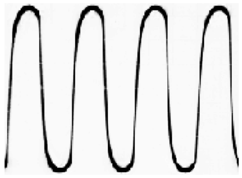
IC6001- 72 PLAY/ REC
6.0Vp-p (5msec. div.)



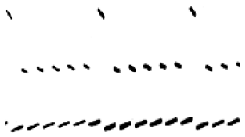
IC6001- 76,77 PLAY/ REC
4.5Vp-p (5msec. div.)



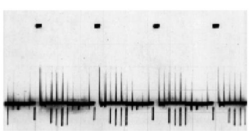
IC6001- 79,80 PLAY/ REC
7.0Vp-p (2sec. div.)



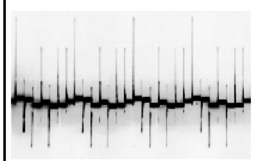
IC6001- 86 PLAY/ REC
0.7Vp-p (0.2msec. div.)



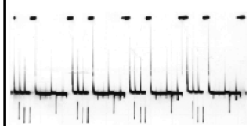
IC6001- 90 PLAY/ REC
5.0Vp-p (10msec. div.)



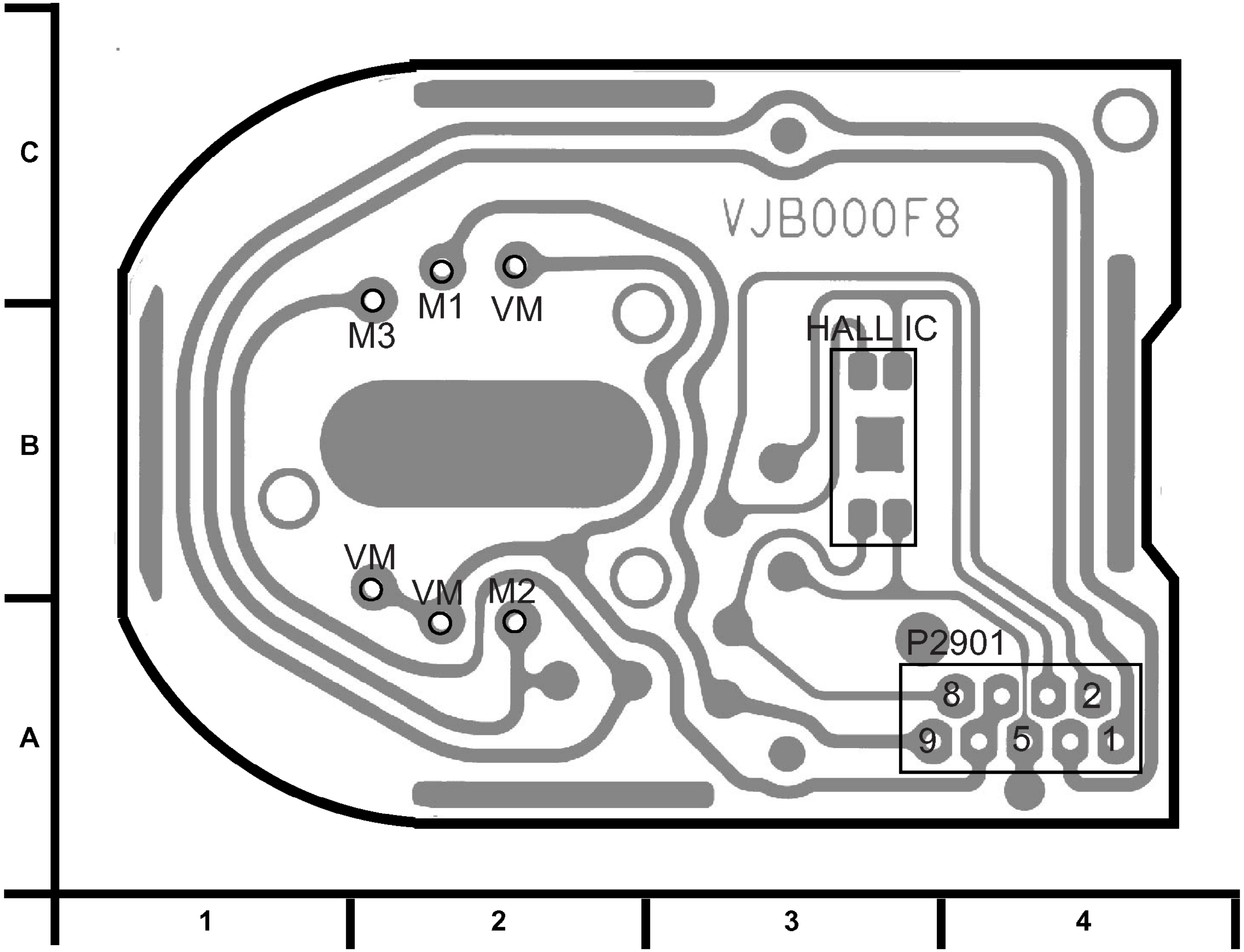
IC7501- 11 - 18 STOP
40Vp-p (1msec. div.)



IC7501- 20 STOP
18.0Vp-p (1msec. div.)



IC7501- 21,23 - 28 STOP
40Vp-p (1msec. div.)



CYLINDER MOTOR UNIT	
Integrated Circuit	
HALL IC	B-3
Connector	
P2901	A-4

ADDRESS INFORMATION

NV-FJ620AM/AMC/EU/AU/BD/BDX
NV-FJ625AM/AMM
CYLINDER MOTOR C.B.A